

# **MDSS SYSTEM ADMINISTRATION GUIDE**



**VERSION 1.6.0**

**Scientific Technologies  
Corporation**





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## 1 SYSTEM ADMINISTRATION INTRODUCTION

*Note:* This guide assumes you are familiar with the MDSS Application User Guide.

The options within the **System Administration** menu are restricted to those in an administrative role such as the **SuperUser** or any role containing the name "**administrator**" or "**admin.**" Other users do not have access to this menu.

There are many **Roles** defined within **MDSS** that determine the tasks each user can perform. **Roles** can relate to the type of work the person performs or their role within the system and the geography in which they perform these tasks. Depending on your state's specification, a user typically has only one role; however, more than one role can be implemented if necessary.

**Permissions** are defined within the application to determine the functions each **role** can perform. Different menus and options may be available depending on your role and permissions. Permissions are used to maintain case confidentiality.

Depending on your user role and permissions, the available options within the System Administration menu may differ. All of the available options regardless of role for the **MDSS** application are:

- Users
- Pending Work Queue
- Review Replaced Patients
- Administrative Reports
- NETTS Export
- NETTS Mappings
- SNOMED Mappings



- Lab Table

*Note:* Users of the System Administration menu and its options are used by System Administrators and are referred to as "the administrator or system administrator" throughout this guide.

Each menu option is discussed in its own section. In order to use this guide proficiently, refer to the menu option and then the specific task you need to perform.

## UNDERSTANDING USER ROLES AND PERMISSIONS

A user role with the name "administrator" or "admin" within the role is able to create a new user account/user role.

User roles are typically grouped by Jurisdiction or geographic access. **Geographic access** describes the geographic location where the user has access. Some examples are: Statewide, Region, County, Hospital (including hospital lab), and Laboratory.

Refer to **Appendix C** for a list of your state's **Roles** and **Permissions**, unique instructions, and a list of terms that are used to explain the roles/permissions.





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## 2 USERS

The **Users** option from the **System Administration** menu provides all of the functions necessary to manage the application's users.

Administrators can perform the following using the **USERS** options/buttons:

- View Users
- Create a new User
- Create/Edit User roles
- Inactivate a User
- Designate automatic case assignments
- Designate which users will receive registration emails
- Invoke the email system in order to send an email to the User

### VIEWING USERS

To view the current list of users, perform the following:

1. Click on the **SYSTEM ADMINISTRATION** menu (located in the TopBar). The "User List" immediately appears.



Figure 2-1: User List

User List							
				<a href="#">Create New User</a>	<a href="#">Export User</a>	<a href="#">Help</a>	
Userid	Name	Jurisdiction	Roles	Active	Automatic Case Assignment	Receive Registration Emails	
ALLEN54	ALLEN ALEC	Livingston County	<a href="#">LHJ Epi and/or CD Nurse</a>	true	false	false	<a href="#">Edit</a>
CHRISJ	CHRIS JACOB	Barry-Eaton	<a href="#">LHJ Epi and/or CD Nurse</a>	false	false	false	<a href="#">Edit</a>
BARNEY5	BARNEY REBEL	Calhoun County	<a href="#">LHJ Supervisory/Admin</a>	true	false	true	<a href="#">Edit</a>
WILMAF	WILMA FLINTSTONE	Marquette County	<a href="#">LHJ Supervisory/Admin</a>	false	false	false	<a href="#">Edit</a>
BETTYR	BETTY REBLER	District 2	<a href="#">LHJ Epi and/or CD Nurse</a>	true	false	false	<a href="#">Edit</a>

2. The fields and their descriptions are listed in the table:

Table 2-1: User List Fields

FIELD	DESCRIPTION
<b>Userid</b>	User Identification name of the user.
<b>Name</b>	Name associated with the user.
<b>Jurisdiction</b>	Name of the geographic access where the user is accessing the application.
<b>Roles</b>	Displays the role name for the user.
<b>Active</b>	Indicates whether the user is active or inactive by displaying true or false, respectively.
<b>Automatic Case Assignment</b>	Indicates whether the user is assigned cases automatically or not by displaying true or false.
<b>Receive Registration Emails</b>	Indicates whether the user will receive registration emails or not by displaying true or false.

3. The actions you can perform on the "User List" screen are:
- Create a New User
  - Display/Edit User Roles
  - Send the User an Email
4. Determine the action you want to perform and continue to the respective section below.



## CREATING A NEW USER/ROLE

To **CREATE** a new **user**, perform the following:

1. Click on the **SYSTEM ADMINISTRATION** menu (located in the TopBar). The "User List" immediately appears.
2. Click the **CREATE NEW USER** button. The "Create User" screen appears.

**Figure 2-2: Create User**

Create User	
Userid *	<input type="text"/>
First Name *	<input type="text"/>
Last Name *	<input type="text"/>
Roles *	<div>MDCH-BOE Admin/Super User MDCH-BOE General Epidemiology Staff MDCH-BOE HIV/AIDS Epidemiologist MDCH-BOE Tuberculosis Program Staff MDCH-STD Program Staff LHJ Supervisory/Admin LHJ Epi and/or CD Nurse LHJ Clerical Health Care Provider Submitting Laboratory Importing Laboratory</div>
Jurisdiction *	<div>- SELECT -</div>
Automatic Case Assignment	<input type="checkbox"/>
Receive Registration Emails	<input type="checkbox"/>
<small>*indicates required items</small>	
<div>Cancel Reset Create User Help</div>	

3. The fields and their descriptions are listed in the table:

**Table 2-2: Create/Edit User Role Fields**

FIELD	DESCRIPTION
Userid	User Identification name of the user.
First Name	First name of the user.
Last Name	Last name of the user.
Email Address	<p>This field will only show on the "Edit User" window and will display an authentic email address.</p> <p>This is the email link that will appear when editing a user. The email address is pulled</p>



FIELD	DESCRIPTION
	<p>from LDAP and will not appear on the "User List" display.</p> <p>This field is not editable but is an HTML mail-to link.</p> <p>The result of clicking on the link is dependent upon the browser, but Internet Explorer will attempt to open the system's default mail client.</p>
<b>Roles</b>	Displays the various role name(s) that can be assigned to the user.
<b>Jurisdiction</b>	Location of the user. Click the drop-down arrow to view/select a valid choice.
<b>Automatic Case Assignment</b>	A checkbox to Indicate whether the user is assigned cases automatically or not. Will display true or false on the User List.
<b>Receive Registration Emails</b>	A checkbox to indicate whether the user will receive registration emails or not. Will display true or false on the User List.

4. At a minimum, fill in the "red\*" (asterisked)" fields.
5. When finished, click one of the available buttons:
  - **CANCEL** – Terminates the process of creating a user and returns to the "User List" screen. If you have changed any information, a "warning prompt" is displayed asking you to verify your intention to cancel.
    - a) If you click the **CANCEL** button, you will return to the creation process.
    - b) If you click the **OK** button, you will lose any values that you entered.
  - **RESET** – Erases any changes that you made.
  - **CREATE USER** – Saves the new user to the database, sends the user an email indicating the username and password have been reset(created), and redisplay the "User List" screen.



## DISPLAYING A USER'S ROLE DETAILS

To view the specific role details (Data Restriction, Privileges, and Program Access) for a user, perform the following:

1. Click on the **SYSTEM ADMINISTRATION** menu (located in the TopBar). The "User List" immediately appears.
2. From the "User List" locate the User whose role you want to display and click on the **ROLES** hyperlink. The "User's Role List" appears revealing the privileges for the id.

**Figure 2-3: User Role List**

MDCH-BOE Admin/Super User	
Data Restriction	Statewide
Privileges	View Administrative Reports
	Overall System Admin Dedup
	View Data
	Modify Aggregate Cases
	NETSS
	Export Data
	Case Entry Dedup
	SNOMED
	Create New Users
	Add/Modify Alerts, All
	Assign Cases
	Edit Data
Program Access	All

3. The fields and their descriptions are listed in the table:

**Table 2-3: User Role Fields**

FIELD	DESCRIPTION
<b>Role</b>	Displays the role name of the user.
<b>Data Restriction</b>	Displays the user's area that is isolated for viewing.
<b>Privileges</b>	Lists the specific permissions the user can view/access.
<b>Program Access</b>	Category of access.

4. Click on a different menu option to exit the screen.



## EDITING USER/ROLE INFORMATION

To edit an existing user's **USER-ID** or **ROLE** information, perform the following:

1. From the TopBar, point and click the **System Administration** menu. The current "User List" immediately appears as though you clicked the **USERS** option.
2. Click the **EDIT** button (located to the far right of the User.) The "Edit User Role" screen appears:

**Figure 2-4: Edit User/Role Information**

Edit User	
Userid *	ADAMST2000
First Name *	BARNEY
Last Name *	REBEL
Email Address	barnev.rebel@kentcountv.org
Roles *	<div> MDCH-BOE Admin/Super User  MDCH-BOE General Epidemiology Staff  MDCH-BOE HIV/AIDS Epidemiologist  MDCH-BOE Tuberculosis Program Staff  MDCH-STD Program Staff  LHJ Supervisory/Admin  <b>LHJ Epi and/or CD Nurse</b>  LHJ Clerical  Health Care Provider  Submitting Laboratory  Importing Laboratory </div>
Jurisdiction *	Barry-Eaton
Active	<input type="checkbox"/>
Automatic Case Assignment	<input type="checkbox"/>
Receive Registration Emails	<input type="checkbox"/>
*indicates required items	
<div> Cancel Reset Submit Changes Help </div>	

3. The fields and their descriptions are listed above in the section titled, "Create New User."

**Note:** The **ACTIVE** field indicates whether the user is active (enabled/checked) or inactive (disabled/unchecked). Additional information is available in the section titled, "Activating/Inactivating a User."



4. Point your mouse cursor and click (or tab) to the field that you want to change. At a minimum, you must fill in the "Red\*" (asterisked) fields.
5. Make the necessary changes and press one of the available buttons:
  - **CANCEL** – Terminates the process of editing the user and returns to the "User List" screen. If you have changed any case information, a "warning prompt" is displayed asking you to verify your intention to cancel.
    - a) If you click the **CANCEL** button, you will return to the editing process.
    - b) If you click the **OK** button, you will lose any edits that you entered.
  - **RESET** – Erases any changes that you made.
  - **SUBMIT CHANGES** – Begins a validation process and if there are no errors, saves the changes you made.

## ACTIVATING/INACTIVATING A USER

Since cases are assigned to investigators by their User-ID, users cannot be deleted from the application but can be inactivated.

To activate or inactivate a user, perform the following steps:

1. Follow the steps in the section titled, "Editing User/Role Information" and then perform the following:
  - **INACTIVATE A USER** – Remove the checkmark from the "Active" checkbox by clicking on the checkmark. The inactive user will no longer be able to access the application; however, this does not effect the user's current application session if (s)he is currently logged in.
  - **ACTIVATE A USER**—Place a checkmark into the "Active" field by clicking inside the checkbox.
2. Click the **SUBMIT CHANGES** button.



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## SETTING/UNSETTING AUTOMATIC CASE ASSIGNMENT

The application assigns new cases to users who are designated to receive the automated case assignment.

To set or unset Automatic Case Assignment, perform the following:

1. Follow the steps in the section titled, "Editing User/Role Information" and then perform the following:
  - **To designate the user to receive automatic case assignments**, place a checkmark in the "Automatic Case Assignment" field.
  - **To stop a user from receiving automatic case assignments**, remove the checkmark from the "Automatic Case Assignment" field by clicking on the checkmark.
2. Click the **SUBMIT CHANGES** button.

## SETTING/UNSETTING RECEIPT OF REGISTRATION EMAILS

To change a user's registration email flag, perform the following steps:

1. Follow the steps in the section titled, "Editing User/Role Information" and then perform the following:
  - **To designate the user to receive registration emails**, place a checkmark in the "Receive Registration Emails" field.
  - **To stop a user from receiving registration emails**, remove the checkmark from the "Receive Registration Emails" field by clicking on the checkmark.
2. Click the **SUBMIT CHANGES** button.





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## EXPORTING THE USER LIST

This option provides the ability to **export** the **User List** to a Comma Separated Value (**CSV**) report.

The columns that will be exported are:

- Userid
- Last Name
- First Name
- Email
- Jurisdiction
- Roles (pipe delimited)
- Active
- Automatic Case Assignment
- Receive Registration Emails

The email address for each user will be pulled from Idap at the time of the export.

1. From the “User List” window, click the **EXPORT** button. There may be a brief “waiting” interval before the file download dialog box appears. The “waiting” interval is relative to the number of users being exported. The “File Download” dialog box will appear asking you to confirm your choice to download the export file.
2. Click the **SAVE** button. The “Save As” dialog box appears asking you to select a location on your computer to store the export file.



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*Note:* You may also provide a filename if you do not want to accept the default that uses the same name as the name of the search.

3. Provide the **LOCATION** for the file and either accept the default **FILENAME** or provide your own filename by typing on top of the default.
4. Click the **SAVE** button. Your exported data file will now reside on your computer in the location you specified.



### 3 PENDING WORK QUEUE

The **Pending Work Queue** function within the System Administration menu provides all of the functions necessary to resolve deferred duplicate patient and case records.

Patients and cases are automatically de-duplicated (or matched) by the application to reduce duplicate entries for patients and cases; thus, improving the data quality. However, there are instances when the deduplication process allows the processing of these possible duplicate records to be postponed. These instances are:

- New cases that are entered by clerical or healthcare providers (or the healthcare providers' staff.)
- Cases created from Electronic Laboratory Reports. Refer to the section titled, "View/Editing Case Details – Lab Reports Tab – Electronic Lab Reports" for more information.
- Patient or case records that have been deferred during the deduplication process. Refer to the section titled, "New Case (Adding) - Background Processing when Saving Cases - Deduplication."

When deduplication is postponed, the record is placed into the **Pending Work Queue** to resolve later.

To access the **Pending Work Queue**, perform the following:

1. From the **System Administration** menu, click the **Pending Work Queue** option from the SideBar. The "Pending Work Queue" list appears:



Figure 3-1: Pending Work Queue List

Pending Work Queue					Date	Sort	Help
Date Added	Type	Current Owner	Jurisdiction	Added By			
05/18/2004	ASSIGN CONDITION - LAB 10038			SUPER USER	Resolve		
05/18/2004	PATIENT DEDUP - LAB 10044			SUPER USER	Resolve		
05/18/2004	PATIENT DEDUP - LAB 10046	SUPER USER		SUPER USER	Unlock		
05/18/2004	ASSIGN CONDITION - LAB 10027			SUPERUSER ATP	Resolve		
05/25/2004	PATIENT DEDUP - LAB 10054		Mid-Michigan District	SUPER USER	Resolve		
05/25/2004	PATIENT DEDUP - LAB 10055		Mid-Michigan District	SUPER USER	Resolve		
05/25/2004	PATIENT DEDUP - LAB 10056		Mid-Michigan District	SUPER USER	Resolve		
05/25/2004	GEOCODE - LAB 10057			SUPER USER	Resolve		
05/25/2004	PATIENT DEDUP - LAB 10058		Statewide	SUPER USER	Resolve		
05/25/2004	PATIENT DEDUP - LAB 10070		Barry-Eaton	SUPER USER	Resolve		

2. The fields/columns and their descriptions are listed in the table:

Table 3-1: Pending Work Queue Columns

FIELD/COLUMN	DESCRIPTION
<b>DATE ADDED</b>	Date the Patient or Case record entered the Queue.
<b>TYPE</b>	Category of the Patient/Case record waiting in the Queue.
<b>CURRENT OWNER</b>	Owner of the Patient/Case record.
<b>JURISDICTION</b>	Geographic area of the Patient/Case record.
<b>ADDED BY</b>	User-ID that added the Patient/Case record to the Queue.

3. Determine the action you want to perform and continue to its respective section below. The actions that can be performed are:
- Selecting a Different Sort Order
  - Resolving Deduplications
  - Unlocking Pending Work Queue Items



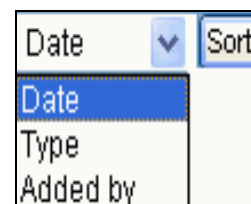
---

## SELECTING A DIFFERENT SORT ORDER

To select a different **SORT** order, perform the following steps:

1. Click the **SORT** drop-down menu arrow (located at the top of the screen, to the left of the "Sort" button.) to view/select a **SORT** order.

**Figure 3-2: Pending Work Queue Sort**



2. Click the **SORT** button to initiate the sort and the Pending Work Queue items will display in the order you specified.

## RESOLVING PATIENT/CASE DEDUPLICATIONS

To resolve **Pending Work Queue** records, perform the following steps:

1. From the **System Administration** menu, click the **Pending Work Queue** option from the SideBar. The "Pending Work Queue" list screen appears:
2. Locate the Patient whose record you want to resolve and click the **RESOLVE** button (located to the far right of the patient record.)
3. Refer to the section titled, "New Case (Adding) – Background Processing when Saving Cases – Deduplication" in the Application User Guide for complete instructions.



---

## UNLOCKING PENDING WORK QUEUE ITEMS

When resolving a **Pending Work Queue** record, the record is locked so other users cannot concurrently access the record. This lock is not released until the record is resolved. Thus, this record is unavailable to everyone.

The **UNLOCK** button on the "Pending Work Queue" screen forces the unlocking of the record. Any processing that has occurred to this record since it was locked will be lost.

*Note:* This button is visible to the person holding the lock and to the **SuperUser**.



## 4 REVIEW REPLACED PATIENTS

The Review Replaced Patients option is accessible from the System Administration menu. It displays a history for all merged patients in the system and is used to review and "**unmerge**" them if the two merged patients were not the same person.

### ABOUT THE UNMERGE PROCESS

Occasionally two patient records that were thought to be the same patient, and were de-duplicated (merged), turn out to be unique patients after all. When this happens, the data for the two patients must be **unmerged** and the original two patients restored.

Directly before two patients are merged, their individual data are archived. This archived data will be used when case unmerging becomes necessary. After the **unmerge process**, all data collected before the merge is restored automatically; however, any data added after the merge must be assigned to one patient (one patient of the two) by you during the unmerge process.

In general, you must assign each data element (lab reports, addresses, investigations) to only one patient. The exception to this rule is for addresses. It is valid to assign an address to both patients during an "unmerge;" however, this leads to another issue.

Each patient in the system can be associated to any number of residence addresses and the time periods during which the patient lived at those addresses. A patient cannot live in two places at the same time, so when unmerging, if assigning an address to a patient causes such a conflict, the application requires the user to edit the address date ranges to resolve the conflicts before completing the **unmerge**.

*Note:* Unmerge listings are not filtered by Geographic Access.



## UNMERGING PATIENT INFORMATION

To "unmerge" patient information, perform the following steps:

1. From the System Administration menu, click the **Review Replaced Patients** option from the SideBar. The "Replaced Patient Search Criteria" screen appears.

**Figure 4-1: Replaced Patient Search Criteria**

**Replaced Patient Search Criteria**

Patient First Name :  Patient Last Name :  Date of Birth (mm/dd/yyyy):  to

City :

Sex :  Race :  Ethnic Group :

Female  
Male  
Unknown

African American  
American Indian or Alaska Native  
Asian  
Caucasian  
Hawaiian or Pacific Islander  
Other  
Unknown

Hispanic or Latino  
Not Hispanic or Latino  
Unknown

2. You may either search for a specific patient or all patients:
  - To **search for a specific patient**, type the known data into the fields.
  - To **search for all patients**, do not type data into the fields.
3. Click the **SEARCH REPLACED PATIENTS** button. The "Replaced Patient List" appears.





Figure 4-2: Replaced Patient List

Replaced Patient List								<a href="#">Help</a>
Select Patient Replacement to Review								
	Patients Replaced			Patient Replaced With				
Date of Replace	Name	Date of Birth	Gender	Name	Date of Birth	Gender		
06/08/2004	JACK SPRAT	11/27/1957	Male	JACK SPRAT	11/27/1957	Male	<a href="#">Review</a>	
	JACK SPRAT	11/27/1957	Male					
06/08/2004	SHARON GOTCHA	03/31/1991	Female	SHARON GOTCHA	03/31/1991	Female	<a href="#">Review</a>	
	SHARON GOTCHA	03/31/1991	Female					
06/08/2004	JACK BLACK	09/19/1953	Male	JACK BLACK	09/19/1953	Male	<a href="#">Review</a>	
	JACK BLACK	09/19/1953	Male					
06/09/2004	JEREMY GABLE	09/13/1988	Male	JEREMY GABLE	09/13/1988	Male	<a href="#">Review</a>	
	JEREMY GABLE	09/13/1988	Male					
06/09/2004	KEVEN MARK	12/14/1962	Male	KEVIN MARK	12/14/1962	Male	<a href="#">Review</a>	
	KEVIN MARK		Male					
06/09/2004	RONALD DONALD	03/17/1952	Male	RONALD DONALD	03/17/1952	Male	<a href="#">Review</a>	
	RONALD DONALD	03/17/1952	Male					
06/09/2004	GARY SMITH	02/13/1951	Male	GARY SMITH	02/13/1951	Male	<a href="#">Review</a>	
	GARY SMITH	02/13/1951	Male					
06/09/2004	HELEN MELLER	08/05/1916	Female	HELEN MELLER	08/05/1916	Female	<a href="#">Review</a>	
	HELEN MELLER	08/05/1916	Female					
06/09/2004	WILLIAM KYLES	09/21/1953	Male	WILLIAM KYLES	09/21/1953	Male	<a href="#">Review</a>	
	WILLIAM KYLES	09/21/1953	Male					
06/09/2004	SARAH MARS	11/19/1981	Female	SARAH MARS	11/19/1981	Female	<a href="#">Review</a>	
	SARAH MARS	11/19/1981	Female					
<a href="#">Revise Search Criteria</a>								

- The fields and their descriptions are listed in the table:



Table 4-1: Replaced Patient List Fields/Columns

FIELD	DESCRIPTION
<b>Date of Replace</b>	Date the merge process of the patients was performed.
<b>PATIENTS REPLACED</b>	
<b>Name</b>	Name(s) of the patient that WAS replaced.
<b>Date of Birth</b>	Birth date of the patient that WAS replaced.
<b>Gender</b>	Sex of the patient that WAS replaced.
<b>PATIENT REPLACED WITH</b>	
<b>Name</b>	Name(s) of the patient that replaced those listed in the "Patients Replaced" column.
<b>Date of Birth</b>	Birth date of the patient that replaced those listed in the "Patients Replaced" column.
<b>Gender</b>	Sex of the patient that replaced those listed in the "Patients Replaced" column.

5. Locate the patient whose records you want to review and click the corresponding **REVIEW** button. The "Review Replaced Patients" screen appears.



Figure 4-3: Review Replaced Patients

	PATIENT A	PATIENT B	PATIENT C
<b>Review Replaced Patients</b>			
Source	Replaced Patient	Replaced Patient	Merge Result Patient
Patient ID	688118	59016	688117
Created Date	06/08/2004	06/08/2004	06/08/2004
Last Modified Date	06/08/2004	06/08/2004	06/08/2004
Patient Status	OUTPATIENT	OUTPATIENT	OUTPATIENT
First Name	JACK	JACK	JACK
Middle Name			
Last Name	WEAK	WEAK	WEAK
Date of Birth	11/27/1957	11/27/1957	11/27/1957
Gender	MALE	MALE	MALE
Race	CAUCASIAN	CAUCASIAN	CAUCASIAN
Ethnicity	NOT HISPANIC OR LATINO	UNKNOWN	NOT HISPANIC OR LATINO
Home Phone			
Other Phone			
Parent/Guardian First Name			
Parent/Guardian Middle Name			
Parent/Guardian Last Name			
<b>Patient Addresses</b>			
Addresses	1 NABISCO ALLEY IONIA, MI 48846 IONIA COUNTY	1 NABISCO ALLEY IONIA, MI 48846 IONIA COUNTY	1 NABISCO ALLEY IONIA, MI 48846 IONIA COUNTY
<input type="button" value="Continue"/> <input type="button" value="Back"/>			

6. There are three columns containing demographic and case information. The three columns represent Patient A, Patient B, and Patient C.
7. Compare each field to determine if these patients should be unmerged and click one of the available buttons:
  - **BACK** – to return to the "Replaced Patient List."
  - **CONTINUE** – to go forward and continue with the unmerge process and display the "Unmerge Confirmation" screen.



Figure 4-4: Unmerge Confirmation

UnMerge Confirmation			
Please review the following sections of information before continuing and finalizing the UnMerge process.			
Review Replaced Patients			
Merged Patient Record #688117 will be permanently lost. Patient Records #59016 and #688118 will be recovered.			
Outcome	Will be Recovered	Will be Recovered	Will be Lost
Patient ID	688118	59016	688117
Created Date	06/08/2004	06/08/2004	06/08/2004
Last Modified Date	06/08/2004	06/08/2004	06/08/2004
Patient Status	OUTPATIENT	OUTPATIENT	OUTPATIENT
First Name	JACK	JACK	JACK
Middle Name			
Last Name	WEAK	WEAK	WEAK
Date of Birth	11/27/1957	11/27/1957	11/27/1957
Gender	MALE	MALE	MALE
Race	CAUCASIAN	CAUCASIAN	CAUCASIAN
Ethnicity	NOT HISPANIC OR LATINO	UNKNOWN	NOT HISPANIC OR LATINO
Home Phone			
Other Phone			
Parent/Guardian First Name			
Parent/Guardian Middle Name			
Parent/Guardian Last Name			
Patient Addresses			
Addresses	1 NABISCO ALLEY IONIA, MI 48846 IONIA COUNTY	1 NABISCO ALLEY IONIA, MI 48846 IONIA COUNTY	1 NABISCO ALLEY IONIA, MI 48846 IONIA COUNTY
<input type="button" value="Complete UnMerge"/> <input type="button" value="Back"/> <input type="button" value="Cancel"/>			

8. This is your last chance to review the patient information to determine if the records should be unmerged.

**Note:** Observe the specific Patient IDs that will be **Recovered** and will be permanently **Lost**.

9. Click one of the available buttons:
- **BACK** – to return to the "Review Replaced Patients" screen.
  - **CANCEL** – to not continue and return to the "Replaced Patient List."
  - **COMPLETE UNMERGE** – to continue with the unmerge process. The "Replaced Patients Search Criteria" screen reappears with a "success" message in the upper left corner.



Figure 4-5: Replaced Patient Search - Unmerge Success Message

**Replaced Patient Search Criteria**

**SUCCESS :** Patient Record #688118, JACK WEAKE and Patient Record #59016, JACK WEAKE were successfully UnMerged from Patient Record #688117 JACK WEAKE

Patient First Name :  Patient Last Name :  Date of Birth (mm/dd/yyyy):  to

City :

Sex :  Race :  Ethnic Group :

Female  
Male  
Unknown

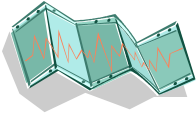
African American  
American Indian or Alaska Native  
Asian  
Caucasian  
Hawaiian or Pacific Islander  
Other  
Unknown

Hispanic or Latino  
Not Hispanic or Latino  
Unknown

10. This completes the "unmerge" process. Click a different menu and/or option to exit.



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## 5 ADMINISTRATIVE REPORTS

The **ADMINISTRATIVE REPORTS** option is accessible via the System Administration menu by clicking the SideBar option.

Currently, there is only one report available, the "**Case Referral and Investigation Timeliness Summary**."

This report creates a listing of all cases that fall within the specified time period and disease information as defined by the report parameters. The case information can be further broken down by geographic boundaries by selecting the appropriate "Geographic Breakdown" radio buttons.

Access to the **Administrative Report** is limited to **Statewide** users and **Local Health Jurisdiction** administrators.

- **Statewide** users have no geographic level restrictions.
- **Local Health Jurisdiction** administrators are restricted to geographic levels from the Local Health Jurisdiction and the data from their jurisdiction.

**Geographic Levels** is a hierarchy of the largest to smallest geographic boundaries. Refer to the **Appendices** section for your specific state's list of User Roles and Permissions for a list of Geographic Levels.

This report can be produced in three different output formats.

### REPORT OUTPUT FORMAT

The **Administrative Report** can be presented in three different formats:



- **PDF** - Portable Document Format - a non-editable format. This report output will open in Adobe Reader.
- **HTML** – Hyper Text Markup Language - standard Web page format. This report output will open in a new browser window.
- **CSV** - Common Separated Value – a text file format. This report output can be opened and reviewed in a variety of applications such as Microsoft Word, Notepad, and Excel, depending on your PC configuration.

## RUNNING A REPORT

To run a report, perform the following steps:

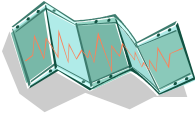
1. From the Top Navigation bar, click the **System Administration** menu.
2. From the SideBar, point and click the **Administrative Report** option. The "Administrative Report" selection screen appears:

**Figure 5-1: Administrative Report Limitations/Selections**

Case Referral and Investigation Timeliness Summary			
<b>Time Period</b>			
<input checked="" type="radio"/> Month:	June	Year(yyyy):	2006
<input type="radio"/> Week:	26-2006		
<input type="radio"/> From Date (mm/dd/yyyy):		<input type="radio"/> To Date (mm/dd/yyyy):	
<b>Geographic Breakdown</b>			
<input checked="" type="radio"/> State Wide	<input type="radio"/> County		
<input type="radio"/> Region	<input type="radio"/> Local Health Jurisdiction		
<b>Disease or Disease Group</b>			
<input checked="" type="radio"/> Reportable Condition	<div> <div>AIDS, Adult</div> <div>AIDS, Pediatric</div> <div>Amebiasis</div> </div>	<input type="radio"/> Disease Group	<div> <div>AIDS/HIV</div> <div>Foodborne</div> <div>Meningitis</div> </div>
<div>View HTML Report</div> <div>View PDF Report</div> <div>View CSV Report</div> <div>Reset</div> <div>Help</div>			

3. Refer to the table for a list of the major breakdown sections:





*Note:* This table includes every state's options, so you may not see all the categories/options listed below.

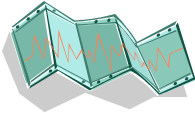
**Table 5-1: Report Limitations/Selections**

SELECTION AREA	DESCRIPTION
<b>TIME PERIOD</b>	<p>The "Onset Date" must fall within the specified time period range. If the "Onset Date" is unavailable, the system will compare against the "Referral Date."</p> <p>The time period may be a selection of the following:</p> <ul style="list-style-type: none"><li>• <b>Month</b>—limits the report to cases within the month selected. If the month radio button is selected you must select a month from the drop-down menu.</li><li>• <b>Year</b>—limits the report to cases within the year provided. If the YEAR radio button is selected, you must provide a year. The year must be a valid 4-digit year and cannot be greater than the current year.</li><li>• <b>MMR Week</b>—limits the report to cases within the "MMWR Week" provided. If the MMWR Week radio button is selected, you must provide a valid MMWR week in the format of a two-digit week and a four-digit year (i.e., 23-2005).</li><li>• <b>From Date</b>—limits the report to cases within the date range provided. If the FROM DATE radio button is selected, you must provide a "FROM DATE" and a "TO DATE." The "From Date" must be a valid date, cannot be greater than the "To Date," and cannot be greater than the current date. The format must be mmddyyyy.</li><li>• <b>To Date</b>—limits the report to cases within the date range provided. If the FROM DATE radio button is selected, you must provide a "From Date" and a "To Date." The "To Date" must be a valid date, cannot be less than the "From Date," and cannot be greater than the current date.</li></ul>
<b>GEOGRAPHIC BREAKDOWN</b>	<p>This section provides radio buttons for selecting the geographic boundaries for the report. Each radio button is exclusive of the other options within this section. The geographic information selected will compare against the Investigation Address of the</p>



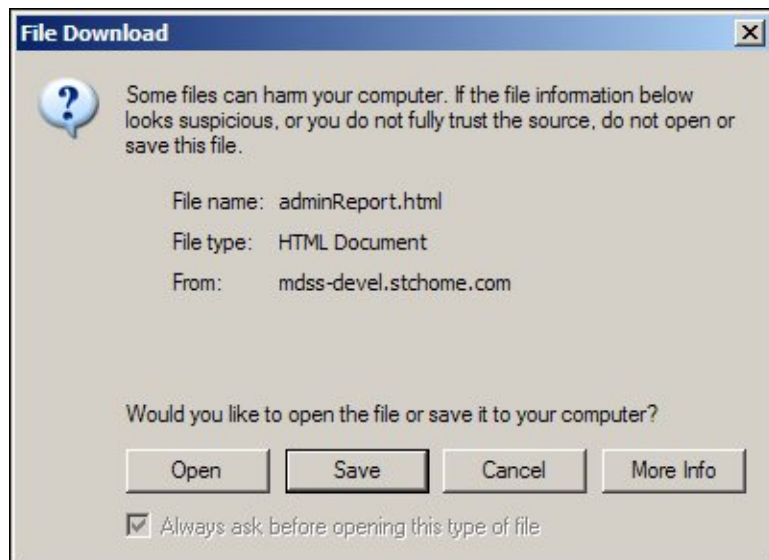
SELECTION AREA	DESCRIPTION
	<p>case. Only the cases that fall within the selected geographic boundary will be included on the report.</p> <ul style="list-style-type: none"> <li>• <b>Statewide</b>—All cases reported within the State will be included on the report.</li> <li>• <b>County</b>—All cases reported within the selected county(ies) will be included on the report. If no county is selected, then data for all counties are reported.</li> <li>• <b>Region</b>—All cases reported within the selected region(s) will be included on the report. No selection indicates all regions.</li> <li>• <b>(Local) Health Jurisdiction</b>—All cases reported within the selected jurisdiction(s) will be included on the report. No selection indicates all jurisdictions.</li> </ul>
<b>DISEASE OR DISEASE GROUP</b>	<p>This section of the screen provides the fields for selecting the Reportable Condition or the Disease Group for the report. Each radio button is exclusive of the other options within this section. Only the cases that fall within the selected reportable condition or conditions will be included on the report. Multiple disease or disease group selections are allowed. No selection indicates all diseases or disease groups. All cases matching the selected disease or disease group will be included on the report.</p>

4. Type or select the values for the report parameters.
5. When you are finished selecting and defining the parameters, click one of the following buttons:
  - **VIEW HTML REPORT** – opens a new window to display the report output as a standard Web document.
  - **VIEW PDF REPORT** – opens Adobe Reader to display the report output as a PDF file.
  - **VIEW CSV REPORT** – opens a new window to display the report output in either Microsoft Excel or Notepad; depending on the configuration of your PC.



- **RESET** – erases the values that you have supplied for the report parameters.
6. Assuming you have clicked one of the **VIEW REPORT** buttons, the following dialog box will appear asking you to confirm your choice to download the report output file. There may be a short waiting period before the “File Download” dialog box appears. The waiting period is relative to the number of cases contained in the report output file.

**Figure 5-2: File Download Dialog**

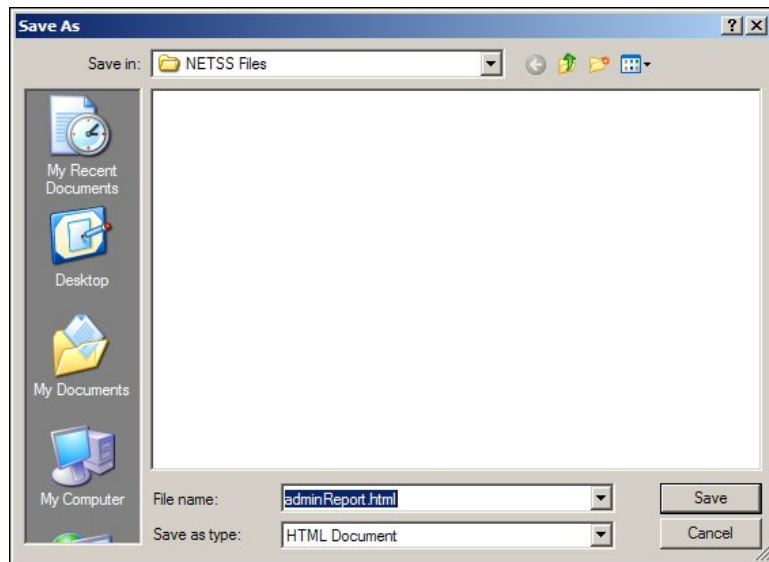


7. Click one of the available buttons:
- **OPEN** – Opens a new window to display the report output as appropriate for the report format selected. You may view and print your report output from this new window. When you are finished, you can close the window by clicking the **close** button located in the top right corner.
  - **CANCEL** – Terminates the process of running and viewing the report and returns you to the report parameter screen.
  - **MORE INFO** – Opens helpful information about downloading a file.



- **SAVE** – Allows you to save the report output on your PC in the format selected. Continue to the next step.
8. If you selected to **SAVE** your report output file, you will be asked to select a location on your computer to store the report output file and a file name.

**Figure 5-3: Save File Dialog**



9. Once you have entered the requested information, click the **Save** button. Your report output file will now reside on your computer in the location that you specified.



## 6 NETSS EXPORT

As the application collects information on disease events, a subset of this information is transmitted weekly to the CDC through NETSS.

The **NETSS** Export function in the System Administration menu provides the ability for the SuperUser to prepare a NETSS compliant extraction file.

NETSS transmission specifications are directed by the CDC. Although personal identifiers such as patient name and address are usually entered into the application, this information is not transmitted.

### CASES THAT GET EXPORTED

Case Investigations with the Case Status of "Confirmed" or "Probable" and the Investigation Status of "Completed" will be reported to the CDC.

An exception is made for corrections where a case that was initially reported as "Confirmed" is changed to "Not a Case." In this instance, a "Deletion Record" will be included in the NETSS Export. Please refer to the section titled, "Deletion Records" for more information.

The information transmitted to the CDC is dependent on the type of record created and the specific reportable condition.



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## TRANSMITTED INFORMATION / RECORD TYPES

The **RECORD TYPES** that get transmitted are:

- Verification Records
- Core Records
- Deletion Records

### VERIFICATION RECORDS (V RECORDS)

Verification records contain year-to-date counts for a particular disease. These records do not contain disease specific or patient identification information.

Verification records are used to synchronize the disease counts between the application and the CDC.

Verification records are identified within the NETSS Export file as "V Records."

### CORE RECORDS

Information contained within a core record is determined by the record type, Individual (single case) or Summary (aggregate case.)

Summary record types are identified within the NETSS Export file as "S Records." The data contained within a summary record relates to the counts provided weekly using the Aggregate Case entry option.

Individual record types are identified within the NETSS Export file as "M Records." They are further defined by the following Reportable Conditions:

- Hepatitis



- Meningitis
- Lyme Disease
- Measles
- Mumps
- Rubella
- Pertussis
- Tetanus

## DELETION RECORDS

If an application's "completed case" (which has already been exported) is changed to "Not a Case," a deletion record is created and sent to the CDC via the NETSS Export. This deletion record is used to correct the CDC information.

## CREATING A NETSS EXPORT

The NETSS Export function creates a file that can be saved locally and then transmitted to the CDC. Once the file resides locally, the State will combine this file with other NETSS export files (from AIDS and STD program areas) and transfer the combined file to the CDC.

Upon exporting a Basic Export or Disease Specific (PDF) Export, the column names are SAS compliant.

There are two types of Exports that can be created:

- **WEEKLY** – to generate an export file for a specific MMWR Ending Week.
- **YEAR TO DATE** – to generate an export file for the entire year up to the current date. This option is used to synchronize the State and CDC data.



To generate an **EXPORT** file, perform the following steps:

1. From the System Administration menu, click the **NETSS EXPORT** option from the SideBar. The "NETSS Export" screen appears:

**Figure 6-1: NETSS Export Screen**

*Note:* This screen indicates the current week-ending date (at the very top of the window) along with the corresponding MMWR Publication Week.

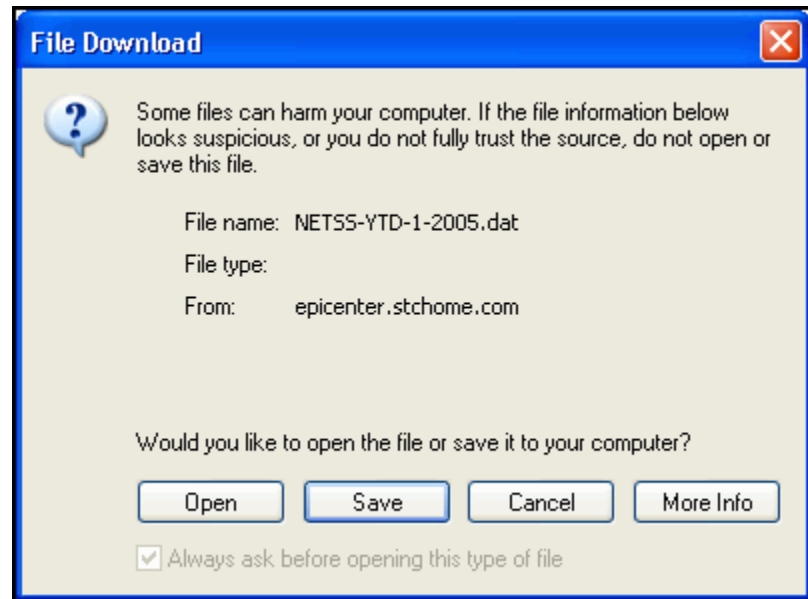
2. Determine the type of **EXPORT** you want to perform. To export data for:
  - **WEEKLY** – type the MMWR Week desired in the "MMWR Ending Week" field using the two-digit week and four-digit year format (WW-YYYY) and click the EXPORT button.
  - **YEAR TO DATE** – Verify the MMWR Week is the current week and click the YEAR TO DATE RESET button.
3. The "File Download" dialog box appears asking you to confirm your choice to download the NETSS Export file.

*Note:* There may be a short waiting period before the "File Download" dialog box appears. The waiting period is relative to the number of cases being exported.



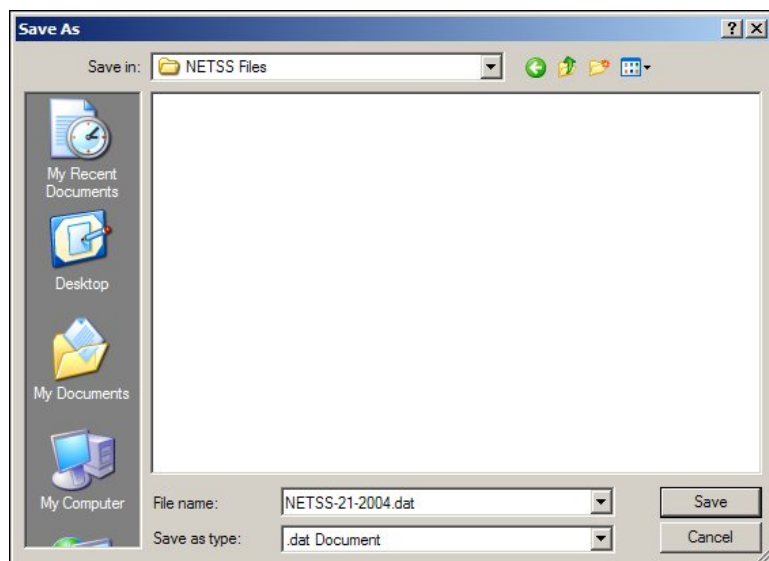


Figure 6-2: File Download Dialog



4. Click the **SAVE** button. The "Save As" dialog box appears asking for a location on your computer to store the export file and a name for the export file.

Figure 6-3: Save As Dialog



5. Once you have entered the requested information, click the **SAVE** button. Your **NETSS** Export file will now reside on your computer in the location that you specified.



A sample of the Weekly Export File (viewed with Microsoft NotePad) is shown below:

**Figure 6-4: Weekly NETSS Export File**

```
NETSS-21-2004.dat - Notepad
File Edit Format View Help
V26110000000104
V26888880000304
V26115700000104
V26100200000104
V26110100000404
V26106800000104
V26115600000104
V26110400001604
V26102400000104
V26110800000104
V26101010000104
V26110200000304
V26101000000104
M92604057127125198888800001125999999999999152040515429999999
M92604057128125201157000001125999999999999252040517429999999
```



---

## 7 NETSS MAPPINGS

When the **NETSS** Export is executed, the application's Reportable Condition that is assigned to a case must be translated into a code that the CDC uses to identify the Disease Event. This CDC code is referred to as the NETSS Code.

The **NETSS** Mappings option in the System Administration module is used to maintain the association between the NETSS Code and the application's Reportable Condition.

Within the **NETSS** Mapping table, a single Reportable Condition is associated with a single NETSS code. Duplicate NETSS codes and duplicate Reportable Conditions are not permitted.

- If a Reportable Condition is not associated with a NETSS code, that Reportable Condition will not be exported by the NETSS Export.
- If a Reportable Condition is mapped to a NETSS code, it must also be set to either "Verification" or "Core" Reportable to be exported.

For more information regarding the NETSS Export, please refer to the section titled, "NETSS Exports."

### CREATING A NETSS MAPPING

To **CREATE** a new **NETSS** Mapping, perform the following steps:

1. Click the **NETSS Mapping** option from the SideBar. The "NETSS List" screen appears:



Figure 7-1: NETSS List

Displaying results **1-10** of **115** found  
[\[< First\]](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [\[Next >>\]](#) [\[Last >\]](#)

NETSS List		Create Mapping		Help	
NETSS Code	MDSS Code				
10010	Meningitis - Aseptic	Edit	Delete		
10020	Brucellosis	Edit	Delete		
10030	Chickenpox (Varicella)	Edit	Delete		
10040	Diphtheria	Edit	Delete		
10050	Encephalitis, Primary	Edit	Delete		
10051	Encephalitis, St. Louis	Edit	Delete		
10052	Encephalitis, Western Equine	Edit	Delete		
10053	Encephalitis, Eastern Equine	Edit	Delete		
10054	Encephalitis, California	Edit	Delete		
10056	West Nile Virus	Edit	Delete		

[\[< First\]](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [\[Next >>\]](#) [\[Last >\]](#)

- Click the **CREATE MAPPING** button (located at the top right corner). The "Create Mapping" screen appears:

Figure 7-2: Create Mapping

Create Mapping	
NETSS Code *	<input type="text"/>
Condition *	AIDS, Adult <input type="button" value="v"/>
Verification Reportable	<input type="checkbox"/>
Core Reportable	<input type="checkbox"/>
*indicates required items	
<input type="button" value="Cancel"/> <input type="button" value="Reset"/> <input type="button" value="Create Mapping"/> <input type="button" value="Help"/>	

- Move to the fields on the screen with mouse or **TAB** key.
- The fields and their descriptions are listed in the table:

Table 7-1: Create Mapping Fields

FIELD	DESCRIPTION
<b>NETSS Code</b>	The CDC code that identifies the reportable condition. This is a required field.



FIELD	DESCRIPTION
<b>Condition</b>	The Reportable Condition. Click the drop-down menu arrow to view/select a reportable condition. Multiple selections are not permitted.
<b>Verification Reportable</b>	A checkbox indicating that the Reportable Condition is exported via the NETSS Export as a "Verification Record." This checkbox must be checked for this Reportable Condition to be included in a NETSS Export.
<b>Core Reportable</b>	A checkbox indicating that the Reportable Condition is exported via the NETSS Export as a "Core Record." This checkbox must be checked for this Reportable Condition to be included in a NETSS Export.

5. At a minimum, you must type/select values for the Fields displayed in **Red\*** (with an asterisk).
6. When you are finished adding the information, click one of the available buttons:
  - **CANCEL** – Terminates the process of adding a mapping and returns you to the "NETSS List" screen. If you have entered any information, a warning prompt is displayed asking you to verify your intention to cancel.
    - a) If you click the **CANCEL** button, you will return to the adding process.
    - a) If you click the OK button, you will lose any data that you have entered.
  - **RESET** – Erases any entries that you made and remains on the same screen.
  - **CREATE MAPPING** – Begins a validation process and if there are no errors, saves the new NETSS Mapping. You will return to the "NETSS List" screen.



## EDITING A NETSS MAPPING

To edit an existing **NETSS** Mapping, perform the following steps:

1. Click the **NETSS MAPPING** option from the SideBar. The "NETSS List" screen appears.
2. From the "NETSS List" screen, locate the specific mapping you want to edit.
3. Click the **EDIT** button (located to the right of the specific mapping). The "Edit Mapping" screen appears with the previous values:

**Figure 7-3: Edit Mapping**

Edit Mapping	
NETSS Code *	<input type="text" value="10020"/>
Condition *	Brucellosis
Verification Reportable	<input checked="" type="checkbox"/>
Core Reportable	<input checked="" type="checkbox"/>
*indicates required items	
<input type="button" value="Cancel"/> <input type="button" value="Reset"/> <input type="button" value="Submit Changes"/> <input type="button" value="Help"/>	

4. Point/click your mouse or click the **TAB** key to position your cursor in the field you want to change.
5. Make the necessary changes and press one of the available buttons:
  - **CANCEL** – Terminates the process of editing a mapping and returns you to the "NETSS List" screen. If you have changed any information, a warning prompt is displayed asking you to verify your intention to cancel.
    - a) If you click the **CANCEL** button, you will return to the editing process.
    - a) If you click the **OK** button, you will lose any changes that you have made.
  - **RESET** – Erases any changes that you made and remains on the same screen.
  - **SUBMIT CHANGES** – Begins a validation process and if there are no errors, saves the changes



to the NETSS Mapping. You will return to the "NETSS List" screen.

*Note:* If you attempt to navigate to another screen without clicking **RESET** or **SUBMIT CHANGES**, a warning message appears.

## DELETING A NETSS MAPPING

*Note:* If you delete a NETSS Mapping record, the associated reportable condition will no longer be included in future NETSS Exports.

To **DELETE** a **NETSS Mapping**, perform the following steps:

1. Click the **NETSS MAPPING** option from the SideBar. The "NETSS List" screen
2. From the "NETSS List" screen, locate the specific mapping you want to **DELETE**.
3. Click the **DELETE** button (located on the far right of the NETSS Mapping.) A "warning dialog" box is displayed asking you to verify your intention to delete this mapping.
  - If you click the **OK** button, the mapping will be deleted and you will return to the "NETSS List" screen.
  - If you click the **CANCEL** button, the mapping will NOT be deleted and you will return to the "NETSS List" screen.



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## 8 SNOMED MAPPINGS

When the State Public Health Laboratory confirms the diagnosis of a Reportable Condition, the laboratory sends this information to the application. The Electronic Laboratory Reports do not identify the Reportable Condition. Instead, these reports identify a positive test result (or numeric result within a confirming range) for a specific SNOMED (Systematized Nomenclature of Medicine) test code.

As the Electronic Laboratory Reports are processed, the SNOMED code provided in the report is used to lookup the associated Reportable Condition.

The **SNOMED** Mappings option on the System Administration menu is used to maintain the association between the SNOMED code and the application's Reportable Condition.

Within the **SNOMED** Mapping table, each SNOMED code is listed only once; however, a single Reportable Condition can have multiple SNOMED codes associated with it. If a SNOMED code is received that isn't associated with a Reportable Condition, the Reportable Condition is left blank and the resulting case will be assigned to the State.

### CREATING A SNOMED MAPPING

To **CREATE** a new **SNOMED** Mapping, perform the following steps:

1. From the **SYSTEM ADMINISTRATION** menu, click the **SNOMED MAPPING** option from the SideBar. The "SNOMED List" screen appears:



Figure 8-1: SNOMED List

Displaying results **1-10** of **315** found  
[\[< First\]](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#) [17](#) [18](#) [19](#) [20](#) [\[Next >\]](#) [\[Last >\]](#)

SNOMED List		<a href="#">Create Mapping</a> <a href="#">Help</a>	
SNOMED Code	Condition		
L-10028	Gonorrhea	<a href="#">Edit</a>	<a href="#">Delete</a>
L-12202	Anthrax	<a href="#">Edit</a>	<a href="#">Delete</a>
L-12801	Pertussis	<a href="#">Edit</a>	<a href="#">Delete</a>
L-12921	Lyme Disease	<a href="#">Edit</a>	<a href="#">Delete</a>
L-13200	Brucellosis	<a href="#">Edit</a>	<a href="#">Delete</a>
L-13201	Brucellosis	<a href="#">Edit</a>	<a href="#">Delete</a>
L-13202	Brucellosis	<a href="#">Edit</a>	<a href="#">Delete</a>
L-13203	Brucellosis	<a href="#">Edit</a>	<a href="#">Delete</a>
L-13204	Brucellosis	<a href="#">Edit</a>	<a href="#">Delete</a>
L-13205	Brucellosis	<a href="#">Edit</a>	<a href="#">Delete</a>

[\[< First\]](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#) [17](#) [18](#) [19](#) [20](#) [\[Next >\]](#) [\[Last >\]](#)

- Click the **CREATE MAPPING** button (located at the top of the screen). The "Create Mapping" screen appears:

Figure 8-2: Create Mapping

Create Mapping	
SNOMED Code *	<input type="text"/>
Condition *	AIDS, Adult <a href="#">v</a>
Description	<input type="text"/>
*indicates required items	
<a href="#">Cancel</a> <a href="#">Reset</a> <a href="#">Create Mapping</a> <a href="#">Help</a>	

- Using your mouse or **TAB** key, move to the appropriate fields within the screen. The fields and their descriptions are listed in the table:

Table 8-1: Create SNOMED Mapping Fields

FIELD	DESCRIPTION
<b>SNOMED Code</b>	The standardized test code as assigned by SNOMED. This is a required field.



FIELD	DESCRIPTION
<b>Condition</b>	The Reportable Condition. Click the drop-down menu arrow to view/select a reportable condition. Multiple selections are not permitted.
<b>Description</b>	This field is optional. It is used to provide a brief description of the SNOMED/Reportable Condition association.

4. At a minimum, type/select the values for "Red\*" (red asterisk) fields.
5. When finished, click one of the available buttons:
  - **CANCEL** – Terminates the process of adding a mapping and returns you to the "SNOMED List" screen. If you have entered any information, a "warning dialog" prompt is displayed asking you to verify your intention to cancel.
    - a) If you click the **CANCEL** button, you will return to the adding process.
    - a) If you click the **OK** button, you will lose any data that you have entered.
  - **RESET** – Erases any entries that you made and remains on the same screen.
  - **CREATE MAPPING** – Begins a validation process and if there are no errors, saves the new SNOMED Mapping and returns to the "SNOMED List" screen.



## EDITING A SNOMED MAPPING

To **EDIT** an existing **SNOMED MAPPING** code, perform the following steps:

1. From the **SYSTEM ADMINISTRATION** menu, click the **SNOMED MAPPING** option from the SideBar. The "SNOMED List" screen appears.
2. From the "SNOMED List" screen, locate the specific code you want to edit.
3. Click the **EDIT** button (located to the right of the SNOMED code). The "Edit Mapping" screen appears:

**Figure 8-3: Edit Mapping**

Edit Mapping	
SNOMED Code *	<input type="text" value="L-12202"/>
Condition *	<input type="text" value="Anthrax"/> ▼
Description	<input type="text"/>
*indicates required items	
<input type="button" value="Cancel"/> <input type="button" value="Reset"/> <input type="button" value="Submit Changes"/> <input type="button" value="Help"/>	

4. Point/click your mouse cursor (or tab) to the field that you want to change.
5. Make the necessary changes and press one of the available buttons:
  - **CANCEL** – Terminates the process of editing a mapping and returns you to the "SNOMED List" screen. If you have changed any information, a "warning dialog" prompt is displayed asking you to verify your intention to cancel.
    - a) If you click the **CANCEL** button, you will return to the editing process.
    - a) If you click the **OK** button, you will lose any changes that you have made.
  - **RESET** – Erases any changes that you made and remains on the same window.



- **SUBMIT CHANGES** – Begins a validation process and if there are no errors, saves the changes to the SNOMED Mapping and returns to the "SNOMED List" screen.

*Note:* If you attempt to navigate to another screen without clicking **RESET** or **SUBMIT CHANGES**, a "warning dialog" prompt appears.

### DELETING A SNOMED MAPPING

To **DELETE** a **SNOMED Mapping**, perform the following steps:

1. From the **SYSTEM ADMINISTRATION** menu, click the **SNOMED MAPPING** option from the SideBar. The "SNOMED List" screen appears.
2. From the "SNOMED List" screen, locate the specific code you want to **DELETE**.
3. Click the **DELETE** button (located on the far right of the SNOMED Mapping.) A "warning dialog" prompt is displayed asking you to verify your intention to delete this mapping.
  - If you click the **OK** button, the mapping will be deleted and you will return to the "SNOMED List" screen.
  - If you click the **CANCEL** button, the mapping will NOT be deleted and you will return to the "SNOMED List" screen.



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## 9 LAB TABLE

The **LAB TABLE** option is used by the System Administrator to add names of facilities into the application.

You can perform the following using this option:

- View a list of the Facilities
- View the Users located at a specific Facility
- Create and/or Edit a Facility

### VIEWING FACILITIES

To view an alphabetical list of the current facilities, perform the following:

1. Click on the **SYSTEM ADMINISTRATION** menu and then click on the **LAB TABLE** option. The “Facility List” appears.

**Figure 9-1: Facilities List**

Facility List										
										Create New Facility
CLIA	Name	Type	Street	City	County	State	Zip	Contact	Contact Phone	
46D0523979	ABC Laboratories	LAB	500 Chipeta Way	Salt Lake City		UT	84108	Shelly Smith	(800) 222-1234	Edit
23D0650909	XYZ Regional Laboratory	LAB	3350 N. Martin Luther King Jr. Blvd.	Lansing	Ingham	MI	48909	Mike Rogers	123-456-4321	Edit
33D0654233	JOE'S Hospital Laboratory	LAB								Edit

2. The fields and their descriptions are listed in the section titled, “Creating a New Facility.”



3. Determine the action to perform and continue to the respective section.

## CREATING A NEW FACILITY

To create a new facility, perform the following:

1. Click on the **SYSTEM ADMINISTRATION** menu and then click on the **LAB TABLE** option. The “Facility List” appears.
2. Click on the **CREATE NEW FACILITY** button. The “Create Facility” window appears.

**Figure 9-2: New Facility**

Create Facility	
CLIA *	<input type="text"/>
Facility Name *	<input type="text"/>
Street	<input type="text"/>
City	<input type="text"/>
State	<input type="text"/>
County	<input type="text"/>
Zip Code	<input type="text"/>
Lab Contact	<input type="text"/>
Lab Contact Phone	<input type="text"/>
*indicates required items	
<input type="button" value="Create Facility"/> <input type="button" value="Reset"/> <input type="button" value="Cancel"/> <input type="button" value="Help"/>	

3. The fields and their descriptions are listed in the table:

**Table 9-1: Create/Edit Facility Field Descriptions**

FIELD	DESCRIPTION
<b>CLIA</b>	Identifying number associated with the facility or can be the nationwide standard code used by laboratories.
<b>Facility Name</b>	Name of the facility associates with the Facility CLIA id.





FIELD	DESCRIPTION
<b>Type</b>	Type of facility. Examples are: <ul style="list-style-type: none"><li>• Hospital</li><li>• Physician's Office</li><li>• Laboratory</li></ul>
<b>Street</b>	Street address of the facility.
<b>County</b>	County name of the facility.
<b>State</b>	State name of the facility.
<b>Zip</b>	Zip code where the facility is located.
<b>Contact</b>	Name of the person that can be called.
<b>Contact Phone</b>	Contact person's phone number.

4. At a minimum, fill in the “red\* (asterisked)” fields.
5. When finished, click one of the available buttons:
  - **CANCEL** – Terminates the process of creating a facility and returns to the “Facility List” window. If you have changed any information, a “warning prompt” is displayed asking you to verify your intention to cancel.
    - a) If you click the **CANCEL** button, you will return to the creation process.
    - b) If you click the OK button, you will lose any values that you entered.
  - **RESET** – Erases any changes or entries that you made.
  - **CREATE FACILITY** – Saves the new facility to the database and redisplay the “Facility List” window.



## VIEWING/EDITING FACILITY DETAILS

To display and/or edit the Facility's details, perform the following:

1. Click on the **SYSTEM ADMINISTRATION** menu and then click on the **FACILITIES** option. The "Facility List" appears.
2. Locate the facility whose details you want to view/edit and click on the **EDIT** button. The "Edit Facility" window appears.

**Figure 9-3: Edit Facility**

Edit Facility	
CLIA *	<input type="text" value="1"/>
Facility Name *	<input type="text" value="Sherri's Facility"/>
Street	<input type="text" value="67 E. Weldon Avenue"/>
City	<input type="text" value="Phoenix"/>
State	<input type="text" value="AZ"/>
County	<input type="text" value="Maricopa"/>
Zip Code	<input type="text" value="85012"/>
Lab Contact	<input type="text" value="Sherri"/>
Lab Contact Phone	<input type="text" value="602-241-1502"/>
*Indicates required items	
<input type="button" value="Submit Changes"/> <input type="button" value="Reset"/> <input type="button" value="Cancel"/> <input type="button" value="Help"/>	

3. Refer to the table titled, "Create/Edit Facility Field Descriptions" for a list of fields and descriptions.
4. Make the necessary changes and when finished, click on one of the available buttons:
  - **CANCEL** – Terminates the process of editing a facility and returns to the "Facility List" window. If you have changed any information, a "warning prompt" is displayed asking you to verify your intention to cancel.
    - a) If you click the **CANCEL** button, you will return to the editing process.



---

b) If you click the **OK** button, you will lose any values that you entered.

- **RESET** – Erases any changes or entries that you made and remains on the same window.
- **SUBMIT CHANGES** – Saves the new facility information to the database and redisplay the “Facility List” window.



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## 10 APPENDICES

The following have been included:

- Appendix A: Software Requirements/Settings
- Appendix B: Requesting Access
- Appendix C: User Roles and Permissions

### APPENDIX A: SOFTWARE REQUIREMENTS / SETTINGS

Software requirements for using the CEDSS application are as follows:

- Oracle Enterprise Edition
  - MDSS uses certain features that are only available in the Oracle Enterprise Edition.
- Internet Browser
  - **Internet Explorer** is **recommended** – version 5.5 SP2 or higher.
  - Netscape Navigator version 6.0 or higher.
- **Adobe Reader** version 5.1 or higher.
  - CEDSS utilizes the power and flexibility of PDF (Portable Document Format) files for Case Management and Reports. Using the technology of PDF Forms, the disease specific forms allow for printing blanks forms and entering investigation information into the application.

To obtain current versions of the Browser or of Adobe Reader, they can be downloaded from their respective sites:

- Microsoft Internet Explorer



- [Http://www.microsoft.com/windows/ie/downloads/critical/ie6sp1/default.asp](http://www.microsoft.com/windows/ie/downloads/critical/ie6sp1/default.asp)
- Netscape Navigator
  - <http://channels.netscape.com/ns/browsers/download.jsp>
- Adobe Reader
  - <http://www.adobe.com/products/acrobat/alternate.html#51>

Browser settings can affect the appearance and functionality of the application. The following settings are recommended to optimize the appearance of the application.

*Note:* Regardless of the type of Browser being used, do NOT use the **BACK**, **FORWARD**, and **REFRESH** buttons within the application. These buttons have been disabled to avoid concurrency errors and potential duplication of processing; however, buttons have been coded within the application to perform these processes.

## INTERNET EXPLORER SETTINGS

The following settings must be setup using Internet Explorer:

- Font Styles
- Text Size
- Auto-Complete

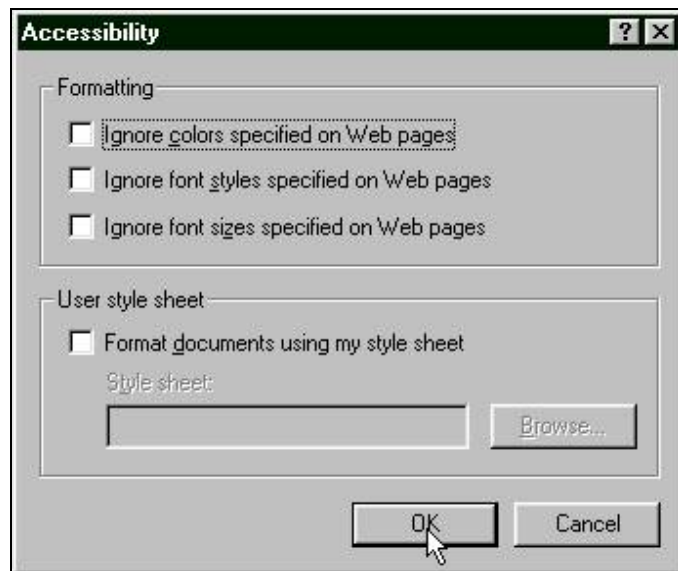


## FONT STYLES

The "Font Styles" are specified by the application. To ensure this happens, perform the following:

1. Click the **TOOLS** menu in the Internet Explorer Browser window.
2. Click the **INTERNET OPTIONS** from the menu.
3. Click the **GENERAL** tab.
4. Click the **ACCESSIBILITY** button. The "Accessibility" window appears.

Figure 10-1: Accessibility Options



5. If any of the checkboxes are checked, uncheck them by pointing and clicking them with your left mouse button:
  - Ignore **colors** specified on Web pages.
  - Ignore **font styles** specified on Web pages.
  - Ignore **font sizes** specified on Web pages.
  - Format **documents** using my style sheet.
6. Click the **OK** button. The "General Tab" window reappears.



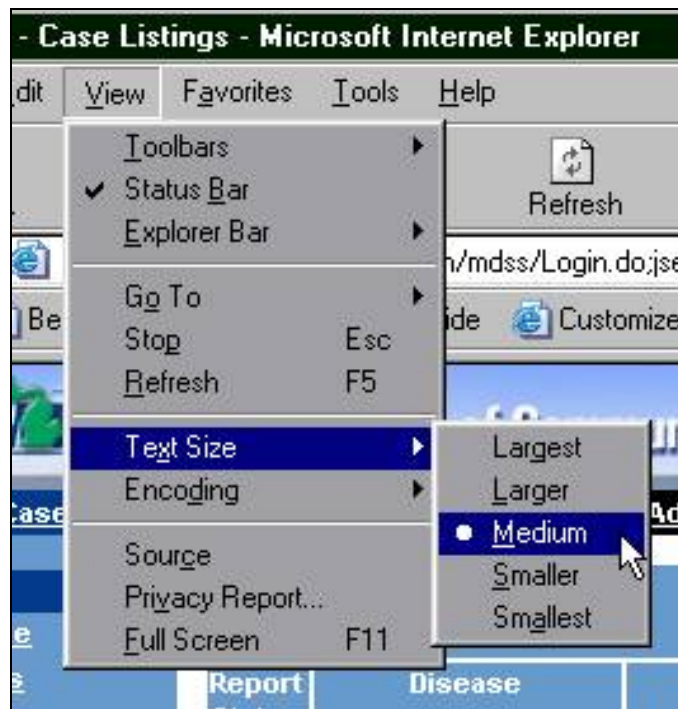
7. Click the **OK** button.

## TEXT SIZE

The Text Size should be specified by the application. To access this setting, perform the following:

1. Click the **VIEW** menu in the Internet Explorer Browser window.
2. Click the **TEXT SIZE** from the menu.
3. Click the **MEDIUM** option. The menu/option flow appears similar to the one shown below.

Figure 10-2: Internet Explorer Text Size



## AUTO-COMPLETE

Auto-Complete is a capability that allows the Internet Explorer to save data that is entered into online forms. When data is typed into the form, Auto-Complete will suggest possible matches. Due to



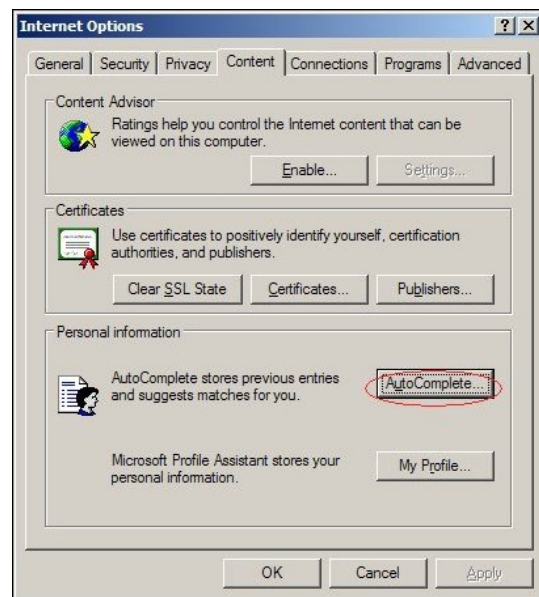


the sensitive nature of the application data, State Department of Health requires that the Internet Explorer Auto-Complete does not allow the capture of this data.

To disable the Internet Explorer Auto-Complete from capturing the application form data, perform the following:

1. Click the **TOOLS** menu in the Internet Explorer Browser window.
2. Click the **INTERNET OPTIONS** from the menu.
3. Click the **CONTENT** tab. The "Internet Options – Content" window appears.

**Figure 10-3: Internet Options – Content**





4. In the "Personal Information" section, click the **AUTOCOMPLETE** button. The "AutoComplete Settings" window appears.

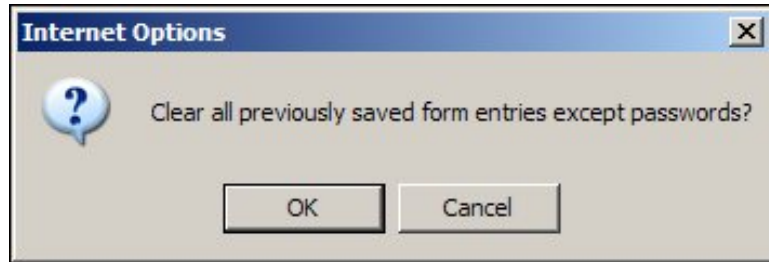
Figure 10-4: AutoComplete Settings



5. In the "Use AutoComplete for" section, uncheck the **FORMS** checkbox, if checked. The window should look like the one shown above.
6. Click the **CLEAR FORMS** button to remove any existing "saved" application data. An "Internet Options Confirmation" dialog box appears.



Figure 10-5: Internet Options Confirmation Dialog Box



7. Click the **OK** button. The "Auto-Complete Settings" window reappears.
8. Click the **OK** button. The "Internet Options" window reappears.
9. Click the **OK** button.

## NETSCAPE NAVIGATOR SETTINGS

The following settings must be setup using Netscape Navigator:

- Font Styles
- Colors and Background
- Auto-Complete

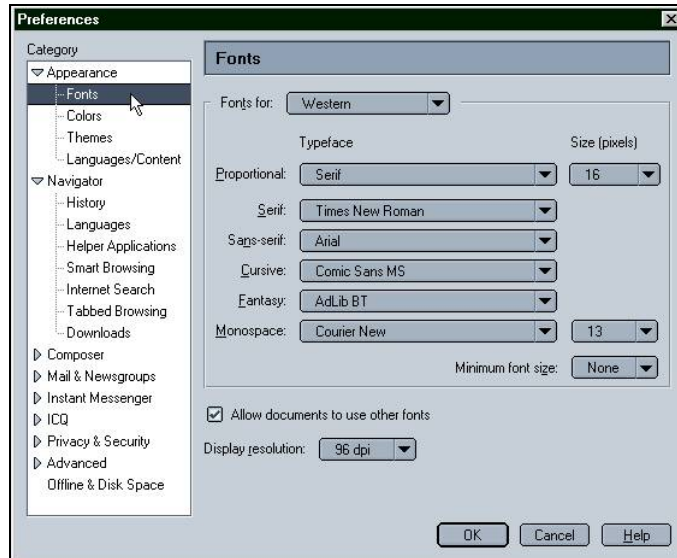
## FONT STYLES

The Font Styles are specified by the application. To ensure this happens, perform the following:

1. Click the **EDIT** menu in the Netscape Navigator Browser window.
2. Click the **PREFERENCES** option from the menu.
3. Click the **APPEARANCE** category from the "Category List."



Figure 10-6: Netscape Navigator Settings – Fonts



4. Click the **FONTS** option. The "Fonts" information displays similar to the one shown above.
5. If the **ALLOW DOCUMENTS TO USE OTHER FONTS** checkbox is **NOT** checked, click it to select/check it.
6. Verify the **DISPLAY RESOLUTION** setting is set to **96 dpi**. If it isn't, click the drop-down arrow to select it.
7. Click the **OK** button.

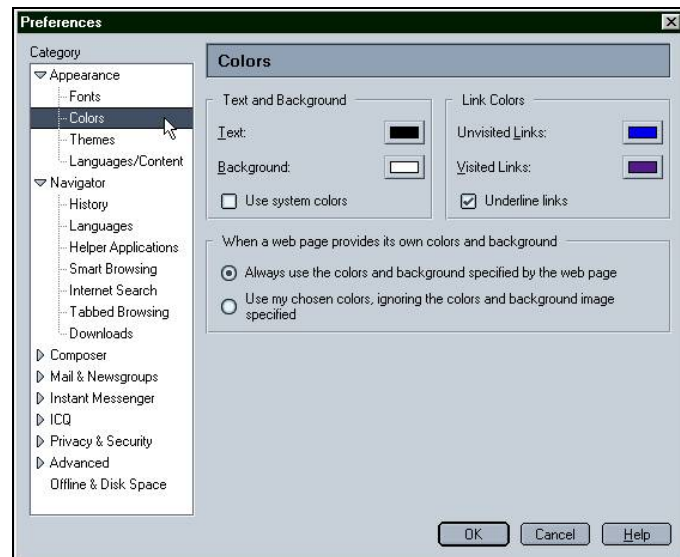
## COLORS AND BACKGROUND

The Colors and Background should be specified by the application. To access these settings, perform the following:

1. Click the **EDIT** menu in the Netscape Navigator Browser window.
2. Click the **PREFERENCES** option from the menu.
3. Click the **APPEARANCE** category from the "Category List."



Figure 10-7: Netscape Navigator Colors &amp; Background Settings



4. If the **ALWAYS USE THE COLORS AND BACKGROUND SPECIFIED BY THE WEB PAGE** radio button is not selected, click it to select it.
5. Click the **OK** button.

## AUTO-COMPLETE

Auto-Complete is a capability that allows the Netscape Navigator to save data that is entered into online forms. When data is typed into the form, Auto-Complete will suggest possible matches. Due to the sensitive nature of the application data, the state requires that the Netscape Navigator Auto-Complete does not allow the capture of this data.

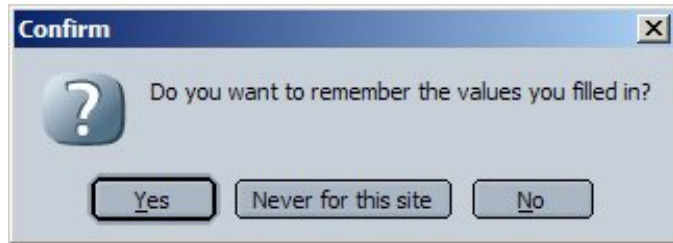
Disabling the Netscape Navigator Form Manager from capturing the application form data can **ONLY** be accomplished while using the online forms. During that time, you need to perform the following:

1. When the **Form Manager** displays a dialog box asking if you want to save the values that you've entered into the form, there are three options:
  - YES



- NEVER FOR THIS SITE
- NO

Figure 10-8: Netscape Confirmation – Auto-Complete



2. Click the **NEVER FOR THIS SITE** button. This choice will ensure that the Form Manager will not ask in the future and will not save the values.

## SYSTEM SETTINGS

Your computer display and font settings will affect the appearance of the application. The following settings are recommended to optimize the appearance of the application.

These settings can be found in the **Display Properties** of your PC.

## SCREEN RESOLUTION AND FONT SIZE

Screen resolution may be operated at a higher resolution, but the application was designed to have 800 x 600 pixel screen resolution.

The Display Font Size should be set to Normal Size (96 dpi).

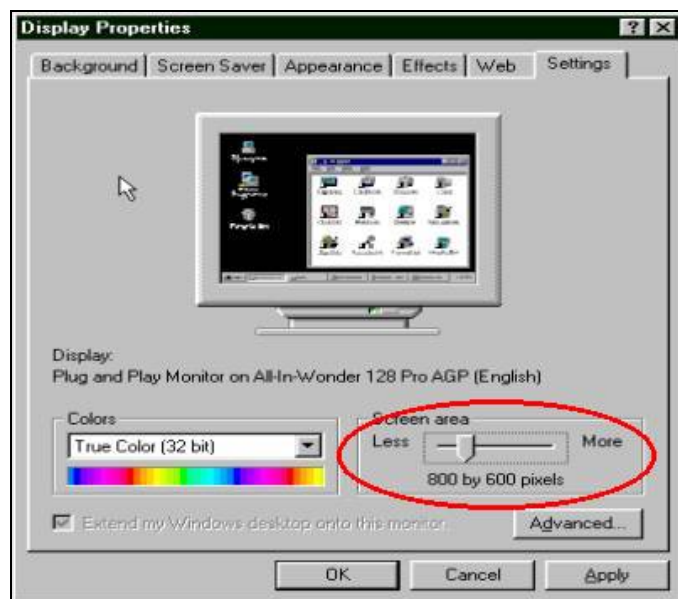
Follow the instructions below to set the screen resolution and font size.

1. Click the **START** button located on the **STATUS BAR** at the bottom left corner of your display. The "START" menu will display.



2. Select the **SETTINGS** option from the **START** menu.
3. Select the **CONTROL PANEL** option from the **SETTINGS** menu. The "Control Panel" directory will open in a new window.
4. Double-click **DISPLAY**. The "Display Properties" window will open in a new window.
5. Click the **SETTINGS** tab. The "Display Properties – Settings" window appears.

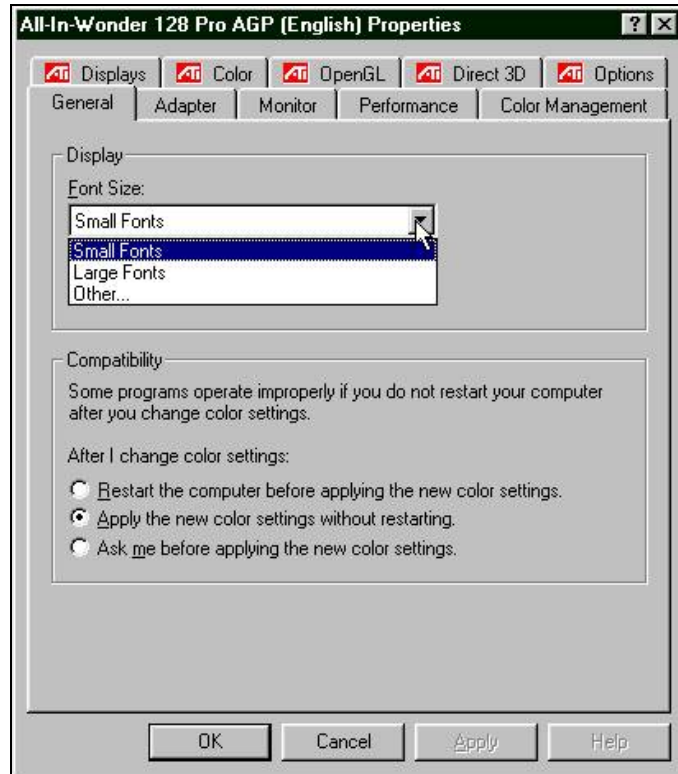
Figure 10-9: Display Properties - Settings



6. In the **SCREEN AREA** section (bottom right hand corner), drag the slider until the setting reads "800 by 600 pixels."
7. Click the **APPLY** button. The Screen Resolution setting is saved.
8. Click the **ADVANCED** button. The "Advanced Settings – General Tab" window appears.



Figure 10-10: Font Size Settings



9. In the "Display – Font Size" section of the window, click the drop-down arrow and select **SMALL FONTS**.
10. Click the **OK** button. The "Display Properties - Settings" window reappears.
11. Click the **OK** button.
12. Close the "Control Panel" window.





---

## APPENDIX B: REQUESTING ACCESS

Before you can access and start using the application, the following steps must be completed in this order.

1. You must have a valid Single Sign-On (SSO) User ID and password. The Single Sign-On Registration will walk you through the steps of obtaining your SSO User-ID and password.
2. You must request Permission to access MDSS. Requesting Access will walk you through the steps of requesting access.
3. You must complete the MDSS User Registration. User Registration will walk you through the steps of registering.
4. You must be assigned a Role within MDSS. Getting a User Role will discuss the process of obtaining a user role.

### 1: SINGLE SIGN-ON (SSO) USER ID REGISTRATION

Your State's Information Technology/Services Department maintains control over newly added users via the Single Sign-On (SSO) verification process. This system has been implemented to administer passwords, access, and administrative services.

Users who have a valid Single Sign-On User-ID and password (e.g., State Childhood Immunization Registry users) should proceed to the next section, Requesting Access to MDSS.

To register for **SSO**, perform the following steps:

1. Using your Internet Browser, type the following **URL** into the location/address text box:

**`https://sso.state.mi.us/`**

2. Press the **ENTER** key. The “Login User-id and Password” screen will appear:



Figure 10-11: Login-User-id and Password

MDCH Department of Community Health Michigan.gov

User ID

Password

Login Register\*

\* If you do not have a username, please click "Register" to apply.

[I forgot my Password](#)

3. Click the **REGISTER** button. The “Registration – Step 1” page will display:

Figure 10-12: SSO Registration – Step 1

MDCH Department of Community Health Michigan.gov

REGISTRATION- Step 1

\* Indicates required field

First Name \*

Middle Initial

Last Name \*

Email Address \*

NOTE: Users who have been assigned a State of Michigan email address must use this address to register.

Continue Clear

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4. Using your mouse or the **TAB** key, move to the appropriate fields within the screen.
5. Type the value for the fields. Fields displayed with an asterisk (\*) are required field entries. You cannot continue without supplying information for these fields.



6. When finished adding the information, click one of the available buttons:
  - **CONTINUE** –begins the validation process. If no errors are detected, the “Registration – Step 2” page will display. If errors are detected, you must correct all errors before proceeding.
  - **CLEAR** – erases the information that you entered into the screen and remains on the same window to re-enter data.

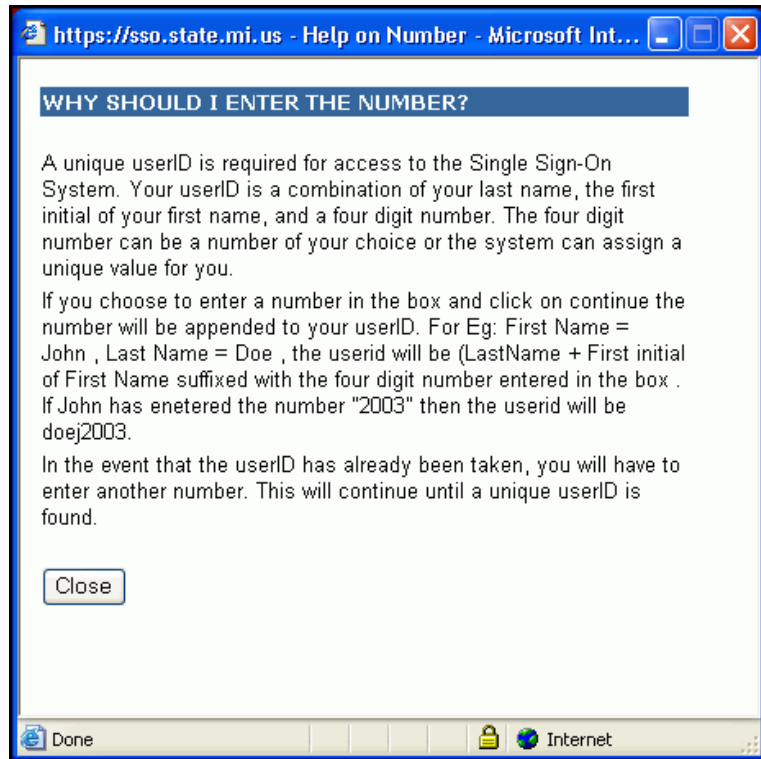
Figure 10-13: SSO Registration – Step 2

The screenshot shows the 'REGISTRATION- Step 2' page. At the top, there are logos for 'MOCH Department of Community Health' and 'Michigan.gov'. The main content area has two options for creating a User-ID: 'Please Enter a four digit number to create a unique UserID' with a text input field containing 'bulls' and a 'Why should I enter this number?' link, and '(OR) Please generate a random four digit number for me' with 'Yes' and 'No' radio buttons. Below this is a section 'Enter the number as it is shown in the box below \*' with a text input field containing '27638'. At the bottom of the form are 'Back', 'Continue', and 'Clear' buttons. A copyright notice at the very bottom reads 'Copyright © 2002 State Of Michigan, Department of Community Health. All rights reserved'.

7. Type a four-digit number (to the right of the user-id) that will be included as part of your User-ID (example: jsmith1234) or you can choose to let the computer generate a number by clicking on the YES radio button. The NO radio button is chosen by default.
  - For a detailed explanation, click on the “Why should I enter this number?” hyperlink. The following window appears:



Figure 10-14: Why enter a 4-digit number dialog box



- a) After reading the dialog box, click the **CLOSE** button to return to the “Registration – Step 2” window.
8. The next field of entry is the field labeled, “Enter the number as it is shown in the box below.”
  - This is the number displayed in the blue box. Using the figure above (SSO Registration - Step 2), the number to type would be: 27638
9. When you are finished adding the information, click any of the available buttons:
  - **BACK** – displays the “SSO Registration – Step 1” window.
  - **CLEAR** – erases the new information that you entered and remains on the same window to re-enter data.
  - **CONTINUE** – begins the validation process. If no errors are detected, the “User Registration



Confirmation” page appears. If errors are detected, you must correct all errors before proceeding.

**Figure 10-15: User Registration Confirmation**

The screenshot shows the 'USER REGISTRATION CONFIRMATION' page. At the top, there is a header with the 'MDCH Department of Community Health' logo on the left and the 'Michigan.gov' logo on the right. Below the header, the page title 'USER REGISTRATION CONFIRMATION' is displayed. A message reads: 'Please review the following information. Click Submit'. The registration details are listed as follows:

First Name	: Sherri
Initial	: K
Last Name	: Bull
Email Address	: Sherri_Bull@stchome.com
Your User Id will be	: bulls1111

At the bottom of the form, there are two buttons: 'Back' and 'Submit'.

10. Review the information displayed and click one of the available buttons:
  - **BACK** – displays the “SSO Registration – Step 2” window.
  - **SUBMIT** – begins the validation process. If no errors were detected, the “Request for Registration Acknowledgement” window appears. If errors were detected, you must correct all errors before proceeding. Your request is sent to the SSO Administrator.

**Figure 10-16: Request for Registration -Acknowledgment**

The screenshot shows the 'Request for Registration -Acknowledgment' page. At the top, there is a header with the 'MDCH Department of Community Health' logo on the left and the 'Michigan.gov' logo on the right. Below the header, a message reads: 'Your request to be registered to the Michigan Web Site is being processed. You will receive an Email within 24 hours with a web site to get your password.' At the bottom of the form, there is a single button: 'Close'.

11. Click the **CLOSE** button. The browser “dialog box” appears asking if you want to close the browser. Click YES to close the browser.



12. The **SSO\_Administrator** responds via e-mail within two business days with your designated password. An example of the SSO registration email is shown below:

**Figure 10-17: SSO Registration Email**

ITIM notification	
The following new ITAM Service [TAMProfile] account has been created for you:	
<a href="#">Click here to goto SSO Login Page</a>	Owner Name: Sherri K Bull
	Account ID: bulls1111
	Password: EoPjj
	Time of service provision: Sep 08, 2005 01:25:12 EDT

**Note:** If you attempt to login before getting the email, you will get a message stating, “Login failed. You have used an invalid username, password or client certificate.”

13. After you receive the SSO registration email, click on the hyperlink labeled, “Click here to go to SSO Login Page.” The “MDCH Sign-In” window appears.

**Figure 10-18: Example: State of Michigan-DCH Login**

MDCH Department of Community Health Michigan.gov

User ID

Password

Login Register\*

\* If you do not have a username, please click "Register" to apply.

[I forgot my Password](#)

14. Type your **User ID**, press the **TAB** key, type the provided Password from the email and click the **LOGIN** button. The “SSO Expired Password” page will display.



Figure 10-19: SSO Expired Password

Department of  
**MDCH** Community Health

Michigan.gov  
An Official State of Michigan Web Site

User example3120's password has expired

Input old password :

Input new password :

Confirm new password :

NOTE: Passwords must be at least five(5) characters in length. Passwords are case sensitive.

Change Password

15. Change your password by typing the appropriate values for the fields.

*Note:* Passwords must be at least five characters in length. Password entries are case sensitive.

16. Click the **CHANGE PASSWORD** button. The “Change Challenge/Response Answers” page will display. The example provided below may not be the same questions that appear on your screen. There are several different questions selected at random.

Figure 10-20: Change Challenge/Response Answers

Change Challenge/Response Answers

Change your answers and click OK. You must provide an answer to each challenge.

What is your mothers maiden name?

Answer:  Confirm Answer:

What are the last four (4) digits of your social security number?

Answer:  Confirm Answer:

What is the name of the city in which you were born?

Answer:  Confirm Answer:

What is your fathers middle name?

Answer:  Confirm Answer:

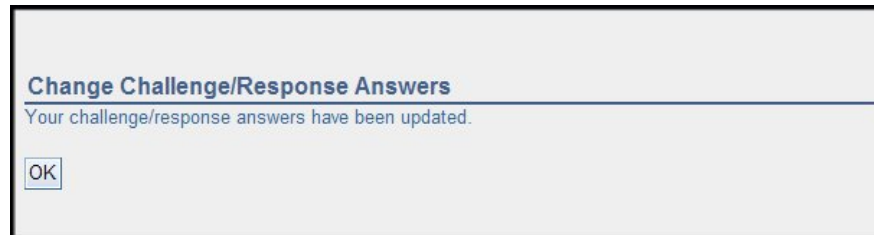
OK Cancel

17. Using your mouse or the **TAB** key, move to the appropriate fields within the screen.



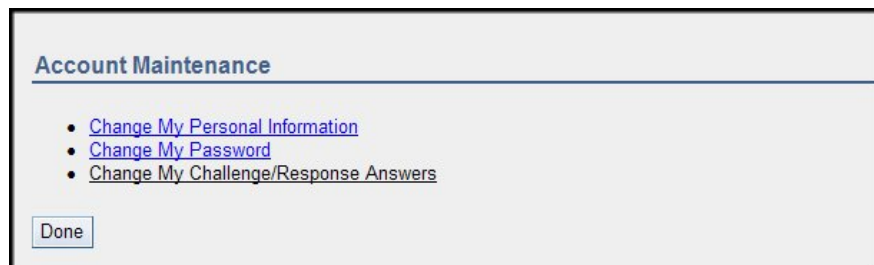
18. Type the value for each of the fields and click the **OK** button. An "acknowledgement" screen displays acknowledging the updates to your challenge/response answers.

**Figure 10-21: Change Challenge/Response Answers Acknowledgment**



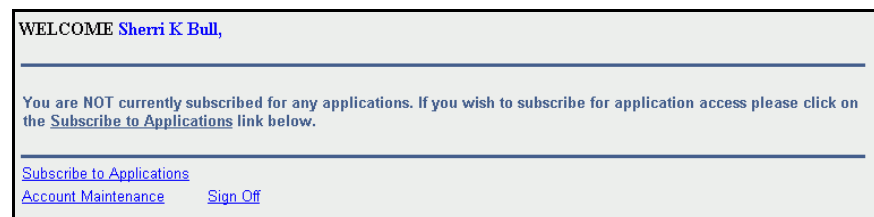
19. Click the **OK** button. The "Account Maintenance" screen appears.

**Figure 10-22: Account Maintenance**



20. Click the **DONE** button. The "Application Portal" screen appears.

**Figure 10-23: Application Portal**



21. You now have a valid SSO User ID and Password. Continue to the next section titled, "Requesting Permission to access MDSS."





## 2: REQUESTING PERMISSION TO ACCESS MDSS

Once you are a registered user of Single Sign On (refer to the previous section), you need to request access to MDSS.

To request access, perform the following steps:

1. Using your Internet Browser, type the following URL into the location/address text box:

<https://sso.state.mi.us/>

2. The “Login User-id and Password” screen appears.
3. Type in your **Single Sign-On User ID**, press the **TAB** key, and type your **PASSWORD**.
4. Click the **LOGIN** button. The “Application Portal - Registration” page appears.

**Figure 10-24: Application Portal - Subscription**

WELCOME <a href="#">Sherri K Bull</a> ,
<hr/>
You are NOT currently subscribed for any applications. If you wish to subscribe for application access please click on the <a href="#">Subscribe to Applications</a> link below.
<hr/>
<a href="#">Subscribe to Applications</a>
<a href="#">Account Maintenance</a> <a href="#">Sign Off</a>

*Note:* If you see the link **COMMUNICABLE DISEASE REPORTING** within your list of registered applications, you already have permission to access MDSS; hence, you do not need to complete the remainder of these steps.

5. Click the **SUBSCRIBE TO APPLICATIONS** button. The “Subscription” page displays.



Figure 10-25: Subscription Selection

A screenshot of the "SUBSCRIPTION" screen. At the top, the title "SUBSCRIPTION" is in blue. Below it, the text "Please Select from the list" is displayed. A blue drop-down menu is shown with a downward arrow on the right. At the bottom, there are two buttons: "Next" and "Back".

6. Click the drop-down arrow to view the application options and point/click the "Communicable Disease Reporting" link for your state. For example, click "Michigan Disease Surveillance System."
7. Click the **NEXT** button. The "Subscription for: MDSS" page appears.

Figure 10-26: Subscription for MDSS

A screenshot of the "Subscription For: MDSS" screen. The title "Subscription For: MDSS" is in blue. Below it, a note says "\* Indicates required field". There are two input fields: "Work Phone\*" and "Your E-mail\*". The "Work Phone\*" field is empty, and the "Your E-mail\*" field contains "Sherri\_Bull@stchome.com". Below the "Work Phone\*" field, a note says "(Include area code eg: 517-123-3456)". At the bottom, there are three buttons: "Continue", "Reset", and "Back".

8. Click in the **WORK PHONE** field and type your work phone number beginning with the area code. Your e-mail address will automatically be filled in.
9. Click one of the available buttons:
  - **RESET** – clears the information that you entered into the screen and redisplay the page.
  - **BACK** – displays the previous screen.
  - **CONTINUE** –begins the validation process. If no errors were detected, the "User Enrollment Confirmation" page displays (shown below). If errors were detected, you must correct all errors before proceeding.



Figure 10-27: User Enrollment Confirmation

User Enrollment Confirmation For: MDSS

Please review the following information. Click Submit or Back.

**User Info**

<b>Username</b>	: bulls1111
<b>Email Address</b>	: Sherri_Bull@stchome.com
<b>Full Name</b>	: Sherri K Bull
<b>Phone Number</b>	: 602-241-1502

10. Review the information displayed and click one of the available buttons:
  - **BACK** – displays the previous screen.
  - **SUBMIT** – begins the validation process. If no errors were detected, the "Enrollment Acknowledgment" page displays (shown below). If errors were detected, you must correct all errors before proceeding.

Figure 10-28: Enrollment Acknowledgement

Your subscription request has been submitted successfully. You will be notified upon approval.

11. Click the **CLOSE** button. A "Browser Dialog Box" appears asking if you want to close the Browser. Click the YES button to close it. This will close your Internet Browser and your request will be sent.
12. Once your access to MDSS has been granted, you will receive an access approval e-mail (sample approval email shown below).

**Figure 10-29: Access Approval Email**

```
**** THIS IS AN AUTO-GENERATED E-MAIL. PLEASE DO NOT REPLY TO IT DIRECTLY. ****
Your request for access to the MDSS application has been approved. The
MDSS application link will be available the next time you log into the
Single Sign-On system. |
```

13. Continue to the section titled, "Registering with MDSS."

### 3: REGISTERING WITH MDSS

The final step to gaining access is to register with MDSS.

To register with **MDSS**, you must perform the following steps:

1. Using your Internet Browser, type the following URL into the location/address text box:  
  
<https://sso.state.mi.us>
2. Press the **ENTER** key. The "Login User-id and Password" screen appears.
3. Type in your Single Sign-On User ID, press the TAB key, type your Password, and click the LOGIN button. The "Application Portal" window appears with your requested application's hyperlink (shown below Michigan Disease Surveillance System).

**Figure 10-30: Subscribe to Application**

```
WELCOME Sherri K Bull,
You are currently subscribed to the following applications:

• Michigan Disease Surveillance System

Subscribe to Applications  Add new Roles to Existing Subscription
Account Maintenance      Sign Off
```

4. Click the **COMMUNICABLE DISEASE REPORTING** hyperlink; e.g., Michigan Disease Surveillance System. The "User Registration Form" appears.



Figure 10-31: User Registration Form

**General Information**

First Name: Sherri K Last Name: Bull

Address:

City:  County:

State:  Zip:

**User Type**

☐ Doctor's Office ☐ Laboratory

☐ Infection Control Professional ☐ Public Health Provider

**Doctor's Office**

License Number:  Facility Name:

**Laboratory**

License Number:  Facility Name:

**Infection Control Professional**

Job Title:  Facility Name:

**Public Health Provider**

Title:  State:  Jurisdiction:

5. Using your mouse or the **TAB** key, move to the appropriate fields within the screen and type values for the fields.
  - You must fill in the General Information and User Type. Depending on the User Type chosen, fill in the other information; i.e., if the User Type is:
    - a) Doctor's Office, fill in the Doctor's Office section of the window.
    - a) Laboratory, fill in the Laboratory information.
    - b) Etc.
6. When finished adding the information, click one of the available buttons:
  - **CANCEL** – Terminates the process of registering with MDSS and closes the "MDSS User Registration" window. A warning prompt is displayed asking you to verify your intention to cancel.
    - a) If you click the **CANCEL** button, you will return to the registration screen.



- a) If you click **OK**, you will lose any data that you have input.
- **RESET** – Clears the information that you entered into the screen and redisplay the page.
- **REGISTER** – Begins the validation process. If errors were detected, you must correct all errors before proceeding. If no errors were detected, the "Application Portal" screen reappears.
- a) If you click on the application hyperlink before receiving a user role, the "No Access/Privilege" screen appears.

**Figure 10-32: No Access/Privilege**

**If you have just submitted a request for access:**  
Thank you for your submission. The information you provided will be reviewed by the system administrators. Following their review, you will be authorized for appropriate access to the MDSS system.

**If you are waiting for access:**  
Reaching this page means that your access has not been approved yet.  
For information about your request please contact your Local Health Administrator or State Administrator

**If you previously had access:**  
Reaching this page means that your access is disabled.  
For information about your access rights contact your Local Health Administrator or State Administrator

**Close This Window To Return To SSO**

7. You are now finished registering with MDSS and are in "wait" mode. An email is sent to the System Administrator who assigns you a User Role.
8. Continue to the next section titled, "Getting a User Role."

## 4: GETTING A USER ROLE

The system administrator will select the appropriate user role. Once a role is selected, you will have access to the application. Typically, the system administrator will send a notification email.

For more information regarding user roles or activating a user, please refer to the guide titled, "System Administration."

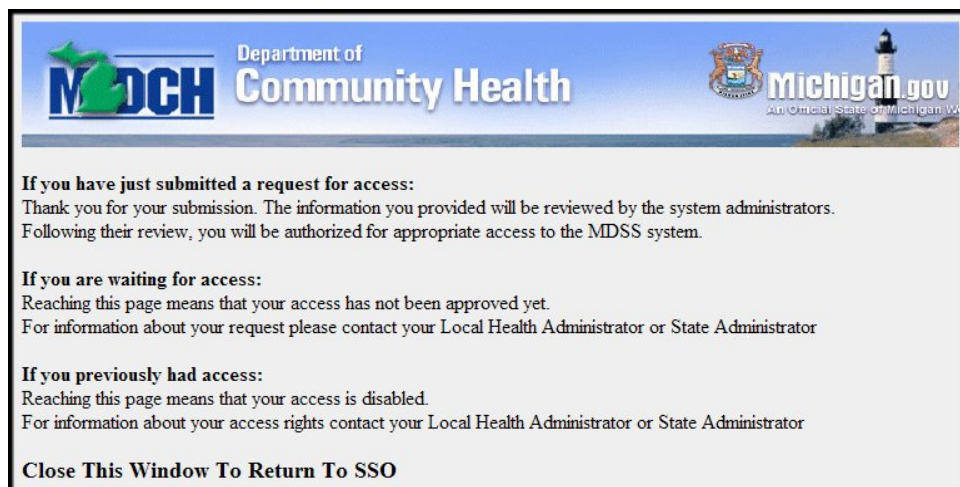


## APPENDIX C: USER ROLES & PERMISSIONS

There are many Roles defined within MDSS that determine the tasks each user can perform. Roles relate to the type of work the person performs or their role within the system and the geography in which they perform these tasks. Each user can only have one role.

When the SSO registration creates a new user account, the LHJ administrator assigns that user a role. Until the role is assigned, the user can navigate to MDSS but will see the “No Privilege” page (shown below).

Figure 10-33: No Privilege Page



Roles enforce access limitations to disease groups, jurisdictions, and administrative functions in the organization. The following table depicts the roles defined in MDSS that are relevant to the LHJ Administrators.

**Table 10-1: MDSS Roles**

Role Number	Description
1	MDCH-BOE Admin/SuperUser
2	MDCH-BOE General Epidemiology Staff
3	MDCH-BOE HIV/AIDS Program Staff
4	MDCH-BOE Tuberculosis Program Staff
5	MDCH STD Program Staff
6	LHJ Supervisory/Admin.
7	LHJ Epidemiologist and/or CD Nurse
8	LHJ Clerical
9	Health Care Provider

*Note:* To add a new LHJ Administrator, you must contact the Regional Epidemiologist or State Administrator.

Permissions are also defined within MDSS to determine the functions each role can perform. Different MDSS menus and options may be available depending on your role and permissions. Permissions are used to maintain case confidentiality.

The following table shows the relationship between the Roles and their Permissions:



**Table 10-2: MDSS Roles and Permissions**

<b>Role</b>	<b>Geography</b>	<b>Add New Users</b>	<b>View/Edit Identifying Data</b>	<b>Export Data</b>	<b>Assign Cases</b>	<b>Manage Alerts</b>	<b>View Reports</b>
6	LHJ	Roles 7-9	LHJ	LHJ	Yes	All Diseases All LHJ Users	All except HIV, AIDS, TB, STD and Small Cell count for own LHJ only
7	LHJ	No	LHJ	LHJ	Yes	All Diseases Self-Only	All except HIV, AIDS, TB, STD and Small Cell count for own LHJ only
8	LHJ	No	LHJ	LHJ	Yes	All Diseases Self-Only	All except HIV, AIDS, TB, STD and Small Cell count for own LHJ only
9	No	No	Only Submitted	No	No	No	None



## APPENDIX D: ELR AND HL7 MESSAGES

MSG	SEQ	Element Name	Notes
MSH	1	Field Separator	
MSH	2	Encoding Characters	
MSH	3	Sending Application	
MSH	4	Sending Facility	<p>A separate table has been added containing the Laboratory CLIA number, laboratory name, lab address, city, state, zip code, lab contact, and lab contact phone number. The CLIA number, lab contact, and lab contact phone number is maintained in the table but will not show up in the Laboratory section of the Case Investigations screen. The system will not allow CLIA numbers to be duplicated.</p> <p>The HL7 message will contain the sending laboratory's CLIA number (MSH-4) which will be used to pull the lab address data and populate the file in the laboratory section on MDSS.</p> <p>This table is maintained under System Administration and is viewable/editable by SuperUsers only.</p> <p>Note: If the lab address were changed, this would not affect previously entered records. If an ELR message contains an unrecognized CLIA, the record will be rejected.</p>
MSH	4.1	Laboratory Name	
MSH	4.2	CLIA Number (Facility ID)	Required. A pre-built table of facilities is maintained. ELR processing rejects messages containing unrecognized CLIA numbers. Lab address information is copied from the table if not available in the message.
MSH	4.3	"CLIA"	
MSH	5	Receiving Application	
MSH	6	Receiving Facility	



MSG	SEQ	Element Name	Notes
MSH	7	Date/Time Of Message	
MSH	9	Message Type	
MSH	10	Message Control ID	
MSH	11	Processing ID	
MSH	12	Version ID	
PID	5	Patient Name	
PID	5.1	Family Name	If Suffix (PID 5.4) is present, populate database and display following Family Name, with a comma separating the Family name and the suffix.
PID	5.2		
PID	5.3		
PID	5.4	Suffix	If 5.4 is present, populate database and display following family name.
PID	7	Date/Time of Birth	
PID	8	Sex	Any other values than {M,F,U} turn into Unknown.
PID	10	Race	White: W or 2106-3 Black: B or 2054-5 Asian: A or 2028-9 Amer Indian or Alaskan Native: I or 1002-5 Hawaiian or Pacific Islander: 2076-8 Other: M, O, or 2131-1 Unknown: U, null, or anything else.
PID	11	Patient Address	
PID	11.1		
PID	11.3		
PID	11.4		
PID	11.5		
PID	11.9		
PID	13	Phone Number - Home	Optional: Mapped to Home Phone number field.
PID	13.6	Home Phone Number	PID 13.6 and 13.7 is mapped to the



MSG	SEQ	Element Name	Notes
	13.7	Home Phone Number Extension	Home Phone Number in MDSS.
<b>PID</b>	14	Phone Number - Business	Optional: Mapped to Other Phone Number field.
	14.6	Business Phone Number	PID 14.6 and 14.7 is mapped to the Other Phone Number in MDSS.
	14.7	Business Phone Number Extension	
<b>PID</b>	22	Ethnic Group	Hispanic or Latino: H; Not Hispanic or Latino: N; Unknown: U or null or anything else. PID 22 is mapped to the Ethnicity field in MDSS.
<b>OBR</b>	3	Filler Order Number	
<b>OBR</b>	3.1		
<b>OBR</b>	4	Universal Service ID	
<b>OBR</b>	4.1		
<b>OBR</b>	4.2		The Parent Result in OBR 26.3 should be added to the "Ordered Test Name". The format for the "Ordered Test Name" should be "(OBR 4.2), (OBR 26.3)"
<b>OBR</b>	4.3		
<b>OBR</b>	4.4		
<b>OBR</b>	4.5		
<b>OBR</b>	4.6		
<b>OBR</b>	7	Observation Date/Time	
<b>OBR</b>	14	Specimen Received Date/Time	
<b>OBR</b>	15	Specimen Source	
<b>OBR</b>	15.1	specimen source name or code (CE)	
	15.3	Freetext	
	15.4	Body Site	
<b>OBR</b>	16	Ordering Provider	Remove OBR 16.2 mapping from
<b>OBR</b>	16.2	Ordering Provider First Name	



MSG	SEQ	Element Name	Notes
OBR	16.3	Ordering Provider Last Name	"Affiliation." Map OBR16.2 and 16.3 to the Primary Physician First and Last Name in the Referrer Section.
OBR	17	Ordering Provider Phone	
OBR	25	Result Status	
OBR	26	Parent Result	Add to Ordered Test Name
OBR	26.3	Parent Result	OBR 26.3 should be added to the Ordered Test Name. The format for the Ordered Test Name field should be OBR 4.2, OBR 26.3.
ZLR	1	Ordering Provider's Address	
ZLR	1.1		
ZLR	1.3		
ZLR	1.4		
ZLR	1.5		
ZLR	1.9		
ZLR	2	Ordering Facility Name	
ZLR	2.1	Ordering Facility Name	Map to "Affiliation" in the Referrer Screen section.
ZLR	3	Ordering Facility Address	If ZLR-1 is blank, map ZLR-3 to the Primary Physician's Address Information in the Referrer Screen section.
ZLR	3.1-3.5	Ordering Facility Address	ZLR 3.1 - ZLR 3.5 should be mapped to the Primary Physician Address information in the Referrer section on MDSS if the Ordering Provider information (OBR-16) is null.
ZLR	4	Ordering Facility Phone	If ORC-14 is blank, map ZLR-4 to the Primary Physician's Phone Number in the Referrer Screen section.
ZLR	4.6	Ordering Facility Phone Number	ZLR 4.6 - ZLR 4.7 should be mapped to the Primary Physician Phone Number in the Referrer section on MDSS if the Ordering Provider information (OBR-16) is null.
ZLR	4.7	Ordering Facility Phone Extension	



MSG	SEQ	Element Name	Notes
ZLR	5	Patient Age	
ZLR	5.2		
ZLR	5.3		
ZLR	6	Next of Kin/Assoc. Party Name	Mapped to parent/guardian first, last and middle name on demographics screen if ZLR-7.1 = Parent, Mother, Father, Guardian, PAR, MTH, FTH, or GRD.
ZLR	6.1 - 6.4	Next of Kin/Assoc Party	Mapped to parent/guardian first, last and middle name on demographics screen if ZLR-7.1 = Parent, Mother, Father, Guardian, PAR, MTH, FTH, or GRD.
ZLR	7	Next of Kin/Assoc. Party Relationship	
ZLR	8	Next of Kin/Assoc. Party Address	
ZLR	9	Next of Kin/Assoc. Party Phone	
ZLR	10	Reserved (Patient's Occupation)	Mapped to Occupations/Grade Field on Demographics screen.
ZLR	10.2	Occupation Text	Mapped to Occupations/Grade field on Demographics screen (after the lab address that currently is being sent in this spot is moved to ZLR21)
ZLR	11	Reserved	
ZLR	12	Reserved	
ZLR	20	Client Contact (DOH)	
ZLR	21	Lab Address	Map to Lab Address information on Lab Reports 2/Laboratory Information Screen.
ZLR	22	Outbreak Name	Map to "Outbreak Name" field in Investigation Information section of case reporting screen.
OBX	1	Set ID - OBX	
OBX	2	Value Type	



MSG	SEQ	Element Name	Notes
OBX	3	Observation Identifier	Map OBX 3.2 and 3.5 to "Reported Test Name," separated by a slash.
OBX	3.1	Observation Identifier	Map OBX 3.2 and 3.5 to "Reported Test Name," separated by a slash.
OBX	3.2	Observation Identifier	Map OBX 3.2 and 3.5 to "Reported Test Name," separated by a slash.
OBX	3.3	Observation Identifier	Map OBX 3.2 and 3.5 to "Reported Test Name," separated by a slash.
OBX	3.4	Observation Identifier	Map OBX 3.2 and 3.5 to "Reported Test Name," separated by a slash.
OBX	3.5	Observation Identifier	Map OBX 3.2 and 3.5 to "Reported Test Name," separated by a slash.
OBX	4	Observation Sub-ID	
OBX	5	Observation Value	
OBX	5.1	<i>*CE data type</i>	
OBX	5.2	<i>*CE data type</i>	
OBX	5.3	<i>*CE data type</i>	
OBX	5.4	<i>*CE data type</i>	
OBX	5.5	<i>*CE data type</i>	
OBX	5.6	<i>*CE data type</i>	
OBX	5.1	<i>*SN data type</i>	
OBX	5.2	<i>*SN data type</i>	
OBX	5.3	<i>*SN data type</i>	
OBX	5.4	<i>*SN data type</i>	
OBX	5.1	<i>*ST data type</i>	
OBX	5.1	<i>*TX data type</i>	
OBX	6	Units	OBX-6 (Units) should be placed after the result (OBX-5) with a space between the result and the units. Units value should be changed from a drop down to free text so that incoming ELR values can be accepted as they are.



MSG	SEQ	Element Name	Notes
OBX	7	Reference Range	Create a new "Reference Range" field below Coded Result in the "Reported Test Name" section. If OBX-7 is not null, map its value to this field. Suppress display of this field if null.
OBX	8	Abnormal Flags	Create a new "Abnormal Flag/Susceptibility Result" field below Reference Range in the "Reported Test Name" section. If OBX-8 is not null, map its value to this field. Suppress display of this field if null.
OBX	9	Probability	
OBX	10	Nature of Abnormal Test	
OBX	11	Observation Result Status	
OBX	12	Date Last Obs Normal Values	
OBX	13	User Defined Access Checks	
OBX	14	Date/Time of the Observation	
OBX	15	Producer's ID	
OBX	16	Responsible Observer	
NTE	1	Set ID - NTE	Create a new field called "Test Comments" in the "Reported Test Name" Section. If any NTE segments occur after an OBX, the values should be mapped to this field. Multiple NTE records should be concatenated into the Test Comment field.
NTE	3	Comment	





## APPENDIX E: RELEASE NOTES FOR V1.6.0

CR #	MODULE	DESCRIPTION
5	MDSS Registration	<p>When a user submits supplemental information to the MDSS for registration, a screen will appear that states, "Thank you for submitting your application to participate in the Michigan Disease Surveillance System. Your supplemental data has been forwarded to a system administrator for access approval. You should be approved within two business days. You can check your status by logging into the application through the Michigan Single Sign On Portal at <a href="https://sso.state.mi.us">https://sso.state.mi.us</a>. If you have any additional questions, please forward them to: <a href="mailto:MDCH-MDSS@MICHIGAN.GOV">MDCH-MDSS@MICHIGAN.GOV</a> or you local administrator.</p> <p>For all emails, message subject line should indicate which application has been applied for (Training, Production, etc.). Message content continues to present the county code versus the county name for all applications.</p>
11	System Administration	<p>When editing a user, a "mail to" link has been added that will email a user. The email address should be pulled from IDAP and will not be added to the "User List" display.</p> <p>The user's email address will be added to the user information table between the Last Name and Roles entries. The contents of the field will not be editable; instead, the entry for that cell in the table will consist of an HTML mail-to link.</p> <p>The result of clicking on the link is dependent upon the browser, but Internet Explorer will attempt to open the system's default mail client.</p>



---

## APPENDIX F: HAN ALERT CONFIGURATION PROPERTIES

### THEORY OF OPERATION

The MDSS system can be configured to generate automatic alerts when new cases are detected. An alert can be configured for a specific condition, location type and a specified number of cases within a specified number of days. Also configurable is the alert level, email only or HAN level (low, medium and high).

Han Alerts are sent to the virtual alert system using the SOAP protocol. All SOAP messages must be authenticated before they can be processed. The MDSS system logs into the SOAP system as a privileged user that is allowed to send messages for other users. All HAN alerts are additionally sent as an email to the user.

Each time a HAN message is sent, an email version is also sent to a “monitor” email address. This was requested so that a supervisor could make sure the HAN messages were being sent to the appropriate people.

If a HAN message receives a negative acknowledge (nack) from the server, an email is sent to the user and monitor email with failure information. A nack may indicate a misconfiguration on the MDSS or HAN side, or may indicate another problem with the message (attempting to alert a non-existent role for example). Specific data about the Virtual Alert API status codes can be obtained from Virtual Alert. MDSS will report the data received from the HAN nack, but does not interpret it.

All configuration properties are located in the **STC.Properties** file. They are described below.



---

## MESSAGE FORMATTING

The Java Message Formatter is used to generate the email and HAN text messages. The available variables are assigned numbers starting with 0. A string is then composed that uses {x} to insert variable x into the string dynamically. The variables available for the alerts are listed below.

Example:

Alert properties:

MDSS User First Name = John

Condition = Aids

Number of Cases = 10

Number of Days = 5

Using the properties values below with a message string of “[0] has a new alert triggered by [5] cases of [4] in [6] days” would generate the following alert string: John has a new alert triggered by 10 cases of Aids in 5 days.

Changes to these properties will take effect after restarting the application server. No caching of these values is done by MDSS, but the application server often caches the properties file, necessitating a restart.

```
*****  
**
```

```
# alert properties
```

```
# 0 - MDSS User First Name  
# 1 - MDSS User Middle Name  
# 2 - MDSS User Last Name  
# 3 - Jurisdiction of Case(s)  
# 4 - Condition  
# 5 - Number of Cases  
# 6 - Time span (days)  
# 7 - Alert Id  
# 8 - Alert Level  
# 9 - HAN User Id  
# 10 - HAN Role Group  
# 11 - MDSS User Id  
# 12 - HAN Msg Subject
```



---

```
# 13 - HAN Msg Body
# 14 - HAN SOAP Exception (Used for monitor failed email
only, otherwise null)
# 15 - HAN Alert Id (assigned when SOAP message is sent,
used in monitor email)
#*****
```

## EMAIL PROPERTIES

These properties are used to generate the Email text.

```
com.stchome.mdss.alerting.EmailSubject=Michigan HAN {8}
Level Alert M.D.S.S
```

```
com.stchome.mdss.alerting.EmailBody=You have received an
automated {8} level alert corresponding to M.D.S.S. Alert
Number, {7}, created by {0} {2}.\n\nPlease log into the M.D.S.S
for additional information. If you are not an M.D.S.S. user, please
contact your communicable disease program staff for assistance.
```

This value is used in the “from” field of the email.

```
com.stchome.mdss.alerting.EmailFrom=mdss_system@stchome.c
om
```

This value is no longer used and can be removed from the file.

```
com.stchome.mdss.alerting.EmailTo=
```

## HAN PROPERTIES

The following properties apply to the HAN integration.

This controls the HAN integration. It must be set to “true” to enable HAN messages.

```
com.stchome.mdss.alerting.HAN.soap.enable=false
```



---

This sets the url of the HAN system to be used for SOAP communication. It must be uncommented (remove the #) before use.

```
#com.stchome.mdss.alerting.HAN.soap.url=http://michiganhan.net/vaWebservices/alert.asmx
```

This sets the service name to use when communicating with the SOAP server.

```
com.stchome.mdss.alerting.HAN.soap.servicename=AlertingServiceSoap
```

The following is the privileged user/pass to be used when sending messages on behalf of MDSS users.

```
com.stchome.mdss.alerting.HAN.soap.mdssuser=mdssadmin
```

```
com.stchome.mdss.alerting.HAN.soap.mdsspass=mihan_Pass
```

The following 2 values set the subject and body of the HAN messages.

```
com.stchome.mdss.alerting.HAN.subject=test test Michigan HAN {8} Level Alert M.D.S.S
```

```
com.stchome.mdss.alerting.HAN.body=this is a test of the api:
You have received an automated {8} level alert corresponding to
M.D.S.S. Alert Number, {7}, created by {0} {2}.\n\nPlease log
into the M.D.S.S for additional information. If you are not an
M.D.S.S. user, please contact your communicable disease program
staff for assistance.
```

This sets the duration to be used when signaling the han. The value is in hours.

```
com.stchome.mdss.alerting.HAN.duration=24
```

This sets the email subject and body to be send when a han message is attempted and fails for any reason.



---

```
com.stchome.mdss.alerting.HAN.failed.subject=test! test!  
M.D.S.S. Failed Automated {8} Level HAN Alert
```

```
com.stchome.mdss.alerting.HAN.failed.body=test! test! The  
M.D.S.S. attempted to send a {8} level alert to the \"{10}\" using  
 \"{9}\" as a User Id. Check to make sure \"{10}\" and \"{9}\" are  
valid. If you need additional assistance, contact the M.D.S.S Help  
Desk.
```

The system will send an email containing the details about each HAN alert to an authorized person. The email address to be used is set here.

```
com.stchome.mdss.alerting.HAN.monitor.email=brian_fox@stcho  
me.com
```

These values set the subject and body of the email sent to the HAN monitor defined above.

```
com.stchome.mdss.alerting.HAN.monitor.subject=M.D.S.S. sent  
HAN message.
```

```
com.stchome.mdss.alerting.HAN.monitor.body=The following  
HAN Alert (Id {15}) was sent to HAN Role \"{10}\" from  
M.D.S.S. User \"{11}\":\n{12}\n{13}
```

This defines the subject and body sent to the monitor when a message fails.

```
com.stchome.mdss.alerting.HAN.monitor.failed.subject=M.D.S.S.  
Failed Automated {8} Level HAN Alert
```

```
com.stchome.mdss.alerting.HAN.monitor.failed.body=The  
M.D.S.S. User {0} {2} \"{11}\" attempted to send a {8} level alert  
to the \"{10}\" role using \"{9}\" as a User Id. Check to make sure  
 \"{10}\" and \"{9}\" are valid. If you need additional assistance,  
contact the M.D.S.S Help Desk.\n\nException Text:{14}
```



These values map the alert high, medium and low to the corresponding values in HAN.

`com.stchome.mdss.alerting.HAN.HIGH=2`

`com.stchome.mdss.alerting.HAN.MEDIUM=1`

`com.stchome.mdss.alerting.HAN.LOW=0`

## STEPS TO ENABLE HAN

Set `com.stchome.mdss.alerting.HAN.soap.enable = true`.

Set `com.stchome.mdss.alerting.EmailFrom=` to the address alert messages should come from. This is also where emails will bounce to if they have a bad address.

The following 4 field values must be obtained from Virtual Alert.

Verify that `com.stchome.mdss.alerting.HAN.soap.url` is pointing to the correct han address.

Verify that `com.stchome.mdss.alerting.HAN.soap.servicename` has the correct service name.

Set `com.stchome.mdss.alerting.HAN.soap.mdssuser` and

`com.stchome.mdss.alerting.HAN.soap.mdsspass` to the correct values.

Change `com.stchome.mdss.alerting.HAN.monitor.email` to contain the email that all han messages should be cc'd to. If this value is empty, then no monitor emails will be sent.



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